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) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. 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.

04 FEB 2016 to 03 MAR 2016

NAME	TAKEOFF MINIMUMS

AFTON, WY

AFTON MUNI (AFO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 06271 (FAA)

DEPARTURE PROCEDURE: **Rwy 16,** Use LUNDI DEPARTURE. **Rwy 34,** use AFTON DEPARTURE.

ALBANY, OR

ALBANY MUNI (S12)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2B 15344 (FAA)

DEPARTURE PROCEDURE: **Rwy 16,** turn right. **Rwy 34**, turn left.

All aircraft climb direct CVO VOR/DME and continue climb in CVO VOR/DME holding pattern, (East, right turns, 261° inbound) to cross CVO VOR/DME at or above 3400.

NOTE: **Rwy 16,** pole 1391' from DER, 277' right of centerline, 30' AGL/265" MSL. **Rwy 34,** light poles 860' from DER, 69' right of centerline, 40' AGL/262' MSL. Light poles 906' from DER, 15' left of centerline, 41' AGL/262' MSL.

NAME	TAKEOFF MINIMUMS

ANACONDA, MT

BOWMAN FIELD (3U3)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 07186 (FAA)

TAKEOFF MINIMUMS: **Rwy 4,** std. w/ min. climb of 417' per NM to 9000, or 2800-3 for climb in visual conditions. **Rwy 17,** std. w/ min. climb of 321' per NM to 10200, or 2800-3 for climb in visual conditions. **Rwy 22,** NA-obstacles. **Rwy 35,** std. w/ min. climb of 369' per NM to 9100, or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 35,** climbing right turn to 10200 via heading 130° and CPN VOR/DME R-340 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound). **Rwy 17,** climbing left turn to 10200 via heading 100° and CPN VOR/DME R-335 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NOTE: **Rwy 17,** multiple trees beginning 865' from DER, 243' left of centerline, up to 70' AGL/5097' MSL. Rod on hangar 570' from DER, 278' left of centerline, 54' AGL/5054' MSL. Multiple trees beginning 787' from DER, 165' right of centerline, up to 70' AGL/5098' MSL. Multiple transmission lines beginning 4602' from DER, 1664' right of centerline, 80' AGL/5159' MSL. **Rwy 35,** multiple transmission lines beginning 2242' from DER, 964' left of centerline, up to 80' AGL/5159' MSL.

ARCO, ID

ARCO-BUTTE COUNTY (AOC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 08157 (FAA)

TAKEOFF MINIMUMS: **Rwy 6,** NA - Obstacles.
DEPARTURE PROCEDURE: Use JATTS DEPARTURE.

ARLINGTON, WA

ARLINGTON MUNI (AWO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 11237 (FAA)

TAKEOFF MINIMUMS: **Rwy 11,** std. w/min. climb of 400'per NM to 1000, or 1200-2½ for climb in visual conditions. **Rwy 16,** std. w/min. climb of 300'per NM to 1500, or 1200-2½ for climb in visual conditions. **Rwy 29,** std. w/min. climb of 245'per NM to 1400, or 1200-2½ for climb in visual conditions. **Rwy 34,** std. w/min. climb of 260'per NM to 800, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 11,** climbing right turn direct WATON LOM, or for climb in visual conditions, cross Arlington Muni at or above 1200 then proceed on 161° course to WATON LOM, thence... **Rwy 16,**climb direct WATON LOM, or for climb in visual conditions, cross Arlington Muni at or above 1200 then proceed on 161° course to WATON LOM, thence ... **Rwy 29,** climbing left turn on 113°course to WATON LOM, or for climb in visual conditions, cross Arlington Muni at or above 1200 then proceed on 161°course to WATON LOM, thence ... **Rwy 34,** climbing left turn on 134°course to WATON LOM, or for climb in visual conditions, cross Arlington Muni at or above 1200 then proceed on 161°course to WATON LOM, thence ...

... Aircraft departing WATON LOM on bearings 150°CW 340°from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340°CW 150°from WATON LOM, climb in holding pattern (South, left turns, 342° inbound) to cross WATON LOM at or above 4500 before proceeding on course.

NOTE: **Rwy 11,** airport beacon 1116' from DER, 699' left of centerline, 58' AGL/186' MSL. Tree 1443' from DER, 803' left of centerline, 108' AGL/236' MSL. Tree 1819' from DER, 688' right of centerline, 46' AGL/174' MSL. Trees beginning 1.2 NM from DER, left and right of centerline, up to 127' AGL/486' MSL. **Rwy 16,** tree 1240' from DER, 723' left of centerline, 47' AGL/174' MSL. Trees beginning 1289' from DER, 713' right of centerline, up to 87' AGL/214' MSL. **Rwy 29,** trees beginning 897' from DER, 548' right of centerline, up to 97' AGL/229' MSL. **Rwy 34,** trees beginning 1557' from DER, left and right of centerline, up to 96' AGL/236' MSL. Trees beginning 2379' from DER, 196' right of centerline, up to 84' AGL/224' MSL.

ASTORIA, OR

ASTORIA RGNL (AST)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 5 99364 (FAA)

TAKEOFF MINIMUMS: **Rwy 8**, 800-3 or std. with a min. climb of 320' per NM to 900. **Rwy 13**, 700-2 or std. with a min. climb of 350' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 8,31,** turn left.

Rwy 13, climb runway heading to 800 then climbing right turn. **Rwy 26**, turn right. Aircraft departing northwest bound climb via AST R-290 on course.

All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

AUBURN, WA

AUBURN MUNI (S50)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 07298 (FAA)

DEPARTURE PROCEDURE: Use AUBURN DEPARTURE.

AURORA, OR

AURORA STATE (UAO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 11349 (FAA)

TAKEOFF MINIMUMS: **Rwy 17,** std. w/min. climb of 292'per NM to 2100 or 1500-2½ for climb in visual conditions. **Rwy 35,** std. w/min. climb of 312'per NM to 2100 or 1500-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 17,** climbing right turn, thence ... Or for climb in visual conditions cross Aurora State airport at or above 1500 thence... **Rwy 35,** climbing left turn, thence ... Or for climb in visual conditions cross Aurora State airport at or above 1500 thence ...

... Aircraft departing on V23 intercept BTG R-175 and climb on course. All others proceed direct UBG VOR/DME and Hold (hold South, left turns, 003°Inbound) continue climb in hold to cross UBG VOR/DME at or above MEA for direction of flight before proceeding on course.

NOTE: **Rwy 17,** trees beginning 31' from DER, 246' right of centerline, up to 87' AGL/316' MSL. Tree 2270' from DER, 836' left of centerline, 87' AGL/303' MSL. Vehicle on road 254' from DER, 349' left of centerline, 16' AGL/209' MSL. **Rwy 35,** trees beginning 30' from DER, 163' left of centerline, up to 65' AGL/329' MSL. Vehicle on road 212' from DER, 390' left of centerline, 16' AGL/212' MSL. Trees 973' from DER, 281' right of centerline, up to 65' AGL/253' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)
ORIG 15064 (FAA)

Rwy 17, heading as assigned by ATC; requires minimum climb of 375' per NM to 2000. **Rwy 35,** heading as assigned by ATC; requires minimum climb of 350' per NM to 2000.

BAKER, MT

BAKER MUNI (BHK)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 14317 (FAA)

TAKEOFF MINIMUMS: **Rwy 13,** NA-Environmental.

DEPARTURE PROCEDURE: **Rwy 31,** climbing right turn heading 010°to 9000 on 343°bearing from BKU NDB to UMWEL INT and hold, continue climb in hold (hold north, right turns, 163°inbound) to 9000. Expect further instructions from ATC.

NOTE: **Rwy 31,** fence 168' from DER, 498' left of centerline, 6' AGL/2967' MSL. Structure 173' from DER, 499' left of centerline, 10' AGL/2974' MSL. Windsock on building 1015' from DER, 727' left of centerline, 37' AGL/2998' MSL. Rod on antenna 3832' from DER, 136' left of centerline, 112' AGL/3073' MSL.

BAKER CITY, OR

BAKER CITY MUNI (BKE)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 10322 (FAA)

TAKEOFF MINIMUMS: **Rwy 8**,std. w/ min climb of 460' per NM to 6900, or 3700-3 for climb in visual conditions. **Rwy 13**,std. w/ min climb of 470' per NM to 6900, or 3700-3 for climb in visual conditions. **Rwy 17**,N/A-Environmental. **Rwy 26**,std. w/ min climb of 400' per NM to 7200, or 3700-3 for climb in visual conditions.

Rwys 31,35, std. w/ min climb of 400' per NM to 6900, or 3700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 081°to 6900, then climbing left turn to BKE VOR/DME R-066 to BKE VOR/DME and hold, continue climb in BKE VOR/DME holding pattern (Hold S, right turns, 338°inbound) to cross BKE VOR/DME at or above MEA/MCA for route of flight, or for climb in visual conditions, cross BKE VOR/DME at or above 6900, then climb-in-hold to at or above MEA/MCA for route of flight. **Rwy 13,** climb heading 126°to 6900, then climbing left turn to BKE VOR/DME R-095 to BKE VOR/DME and hold, continue climb in BKE VOR/DME holding pattern (Hold S, right turns, 338°inbound) to cross BKE VOR/DME at or above MEA/MCA for route of flight, or for climb in visual conditions, cross BKE VOR/DME at or above 6900, then climb-in-hold to at or above MEA/MCA for route of flight. **Rwy 26,** climbing right turn on heading 330°and BKE VOR/DME R-297 to 7200, then right turn to intercept BKE VOR/DME R-297 to BKE VOR/DME and hold, continue climb in BKE VOR/DME holding pattern (Hold S, right turns, 338° inbound) to cross BKE VOR/DME at or above MEA/ MCA for route of flight, or for climb in visual conditions, cross BKE VOR/DME at or above 6900, then climb-in-hold to at or above MEA/MCA for route of flight. **Rwy 31,** climb heading 306°to 6900, then climbing right turn to BKE VOR/DME R-322 to BKE VOR/DME and hold, continue climb in BKE VOR/DME holding pattern (Hold S, right turns, 338°inbound) to cross BKE VOR/ DME at or above MEA/MCA for route of flight, or for climb in visual conditions, cross BKE VOR/DME at or above 6900, then climb-in-hold to at or above MEA/ MCA for route of flight. **Rwy 35,** climb heading 345°to 6900, then climbing right turn to BKE VOR/DME R-351 to BKE VOR/DME and hold, continue climb in BKE VOR/DME holding pattern (Hold S, right turns, 338° inbound) to cross BKE VOR/DME at or above MEA/ MCA for route of flight, or for climb in visual conditions, cross BKE VOR/DME at or above 6900, then climb-in-hold to at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, vehicles on roadway 321' from DER, on centerline, 11' AGL/3380' MSL. Trees beginning 2.5 NM from DER, 200' left of centerline, up to 100' AGL/3812' MSL. Trees beginning 2.9 NM from DER, 2464' left of centerline. Up to 100' AGL/4270' MSL. **Rwy 13,** trees beginning 2019' from DER, 969' right of centerline, up to 100' AGL/3469' MSL. Bushes beginning 2.2 NM from DER, 4092' left of centerline, up to 3' AGL/3837' MSL. Trees beginning 2.2 NM from DER, 4027' left of centerline, up to 100' AGL/3919' MSL.

BAKER CITY, OR (CON'T)

BAKER CITY MUNI (BKE) (CON'T)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

NOTE: **Rwy 26,** bushes 231' from DER, 55' left of centerline, up to 12' AGL/3381' MSL. Bushes 241' from DER, 147' right of centerline, up to 15' AGL/3384' MSL. Vehicles on roadway 393' from DER, on centerline, up to 18' AGL/3384' MSL. Pole 1276' from DER, 530' left of centerline, 35' AGL/3404' MSL. Trees beginning 2547' from DER, 742' left of centerline, up to 100' AGL/3469' MSL. Trees beginning 2617' from DER. 108' right of centerline, up to 100' AGL/3441' MSL. **Rwy 31,** trees beginning 74' from DER, 49' left of centerline, up to 100' AGL/3424' MSL. Sign 489' from DER, 389' left of centerline, 25' AGL/3391' MSL. Vehicles on roadway 499' from DER, 302' left of centerline, up to 21' AGL/3387' MSL. Trees beginning 1107' from DER, 757' left of centerline, up to 100' AGL/3469' MSL. **Rwy 35,** trees beginning 5.9 NM from DER, 724' right of centerline, up to 100' AGL/4779' MSL.

BELLINGHAM, WA

BELLINGHAM INTL (BLI)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 6 16035 (FAA)

DEPARTURE PROCEDURE: **Rwy 16,** climb heading 164° to 600, then climbing right turn direct HUH VORTAC. Do not exceed 210 KIAS until established northbound. **Rwy 34,** climb heading 344°to 600, then climbing left turn to intercept HUH R-145 to HUH VORTAC, continue climb in holding HUH holding pattern (northwest, right turn, 149°inbound) to MEA as appropriate for direction of flight.

NOTE: **Rwy 16,** tree and windsock beginning abeam DER, 258' right of centerline, up to 15' AGL/187' MSL. Trees beginning 180' from DER, 534' right of centerline, up to 30' AGL/199' MSL. Trees beginning 747' from DER, 404' right of centerline, up to 40' AGL/213' MSL. Trees beginning 1128' from DER, 56' left of centerline, up to 75' AGL/249' MSL. **Rwy 34,** windsock 92' from DER, 516' right of centerline, 19' AGL/169' MSL. Trees beginning 1372' from DER, 698' right of centerline, up to 60' AGL/208' MSL. Trees beginning 2682' from DER, 966' right of centerline, up to 100' AGL/246' MSL. Trees beginning 3079' from DER, 619' right of centerline, up to 85' AGL/246' MSL.

BEND, OR

BEND MUNI (BDN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 09183 (FAA)

DEPARTURE PROCEDURE: Use BEND DEPARTURE.

BIG PINEY, WY

MILEY MEMORIAL FIELD (BPI)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 96172 (FAA)

TAKEOFF MINIMUMS: **Rwys 8,26,** NA.

DEPARTURE PROCEDURE: **Rwy 13,** climb to 8400 via BPI R-124. **Rwy 31,** climb to 10800 via BPI R-320 thence all aircraft climb on course.

BILLINGS, MT

BILLINGS LOGAN INTL (BIL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 7 13346 (FAA)

DEPARTURE PROCEDURE: **Rwy 10L,** climb heading 098° to 4600 before turning right.

NOTE: **Rwy 7**, ground beginning 6' from DER, 55' right of centerline, up to 3542' MSL. Sign 43' from DER, 470' right of centerline, 10' AGL/3544' MSL. **Rwy 10L**, ground beginning 20' from DER, 443' right of centerline, up to 3505' MSL. Vehicles on road beginning 622' from DER, 426' right of centerline, 15' AGL/3524' MSL. Fence 464' from DER, 534' right of centerline, 11' AGL/3511' MSL. **Rwy 10R**, numerous vertical structures beginning 164' from DER, 363' right of centerline, up to 14' AGL/3620' MSL. Antenna beginning 170' from DER, 429' right of centerline, 39' AGL/3646' MSL. Ground 18' from DER, 15' right of centerline, 3608' MSL. Buildings beginning 183' from DER, 492' right of centerline, up to 37' AGL/3644' MSL. Antenna 1339' from DER, 266' right of centerline, 34' AGL/3641' MSL. Antenna 2397' from DER, 332' left of centerline, 132' AGL/3707' MSL. Building 2399' from DER, 325' left of centerline, 88' AGL/3695' MSL. **Rwy 25**, numerous poles, vertical structures, and fence beginning 187' from centerline, 184' left of centerline, up to 37' AGL/3673' MSL. Ground beginning 13' from DER, 339' left of centerline, up to 3664' MSL. Ground beginning 50' from DER, 363' right of centerline, up to 3642' MSL. **Rwy 28L**, ground beginning 22' from DER, 367' left of centerline, up to 3660' MSL. Building 3519' from DER, 715' left of centerline, 91' AGL/3743' MSL.

BLACKFOOT, ID

MCCARLEY FIELD (U02)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 11069 (FAA)

DEPARTURE PROCEDURE: **Rwy 1,** climb to 7000 direct IDA VOR/DME, before proceeding on course. **Rwy 19,** climb to 7000 direct PIH VORTAC, before proceeding on course.

NOTE: **Rwy 1,** vehicles on road beginning at DER 190' right of centerline, 17' AGL/4517' MSL. **Rwy 19,** vehicles on road beginning at DER 250' left of centerline, 17' AGL/4507' MSL.

BOISE, ID

BOISE AIR TERMINAL /GOWEN FIELD (BOI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 10042 (FAA)

DEPARTURE PROCEDURE: Use GOWEN DEPARTURE.

DIVERSE VECTOR AREA (AREA VECTORS)

AMDT 1 15204 (FAA)

Rwy 10L, heading as assigned by ATC; requires minimum climb of 400' per NM to 5600. **Rwy 10R,** heading as assigned by ATC; requires minimum climb of 330' per NM to 5200. **Rwy 28L,** heading as assigned by ATC; requires minimum climb of 240' per NM to 6400. **Rwy 28R,** heading as assigned by ATC; requires minimum climb of 270' per NM to 6100.

BONNERS FERRY, ID

BOUNDARY COUNTY (65S)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 10210 (FAA)

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

DEPARTURE PROCEDURE: **Rwy 20,** use KARPS (RNAV) DEPARTURE.

BOZEMAN,MT

BOZEMAN YELLOWSTONE INTL (BZN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4A 12320 (FAA)

TAKEOFF MINIMUMS: **Rwys 3, 21,** NA-ATC.

DEPARTURE PROCEDURE: **Rwys 12, 30,** use BOZEMAN DEPARTURE.

BREMERTON,WA

BREMERTON NATIONAL (PWT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5A 15316 (FAA)

TAKEOFF MINIMUMS: Rwy 2, 300-1 or std. w/min. climb of 402' per NM to 700. **Rwy 20,** 300-1¼ or std. w/min. climb of 495' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 2,** climbing right turn to 4000 on heading 220° and OLM VORTAC R-346 to CARRO INT/OLM 19.43 DME thence...

Rwy 20, climb heading 197° to 4000 and OLM VORTAC R-346 to CARRO INT/OLM 19.43 DME thence...

... Continue climb in hold (hold N, right turns, 166° inbound) to 4000 before proceeding on course.

NOTE: **Rwy 2,** bushes beginning 380' from DER, 521' left of centerline, up to 16' AGL/456' MSL. Trees beginning 1011' from DER, 709' right of centerline, up to 75' AGL/495' MSL. Trees beginning 1209' from DER, 621' left of centerline, up to 53' AGL/473' MSL. Trees beginning 1674' from DER, 889' left of centerline, up to 141' AGL/541' MSL. Trees beginning 2625' from DER, 878' left of centerline, up to 141' AGL/561' MSL.

Rwy 20, bushes beginning 1' from DER, 488' left of centerline, up to 22' AGL/462' MSL. Trees beginning 177' from DER, 379' left of centerline up to 74' AGL/514' MSL. Trees beginning 372' from DER, 554' right of centerline, up to 69' AGL/489' MSL. Trees beginning 2217' from DER, 402' left of centerline, up to 97' AGL/517' MSL. Trees beginning 3022' from DER, 158' right of centerline, up to 135' AGL/555' MSL. Trees beginning 3315' from DER, 107' left of centerline, up to 127' AGL/547' MSL.

BUFFALO,WY

JOHNSON COUNTY (BYG)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 15176 (FAA)

DEPARTURE PROCEDURE: **Rwy 13,** Climbing left turn heading 290°to intercept SHR VOR/DME R-142 to SHR VOR/DME. **Rwy 31,** Climb heading 306°to intercept SHR VOR/DME R-142 to SHR VOR/DME.

NOTE: **Rwy 13,** fence 3' from DER, 349' left of centerline, 9' AGL/4907' MSL. Bush 7' from DER, 42' right of centerline, 2' AGL/4906' MSL. **Rwy 31,** fence beginning 63' from DER, 464' left of centerline, up to 10' AGL/5021' MSL. Rising terrain starting 87' from DER, left and right of centerline, up to 5011' MSL. Fence beginning 744' from DER, 87' right of centerline, up to 9' AGL/5010' MSL.

BURLEY, ID

BURLEY MUNI (BYI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5A 13150 (FAA)

TAKEOFF MINIMUMS: **Rwy 2,** 200-1½ or std. w/min. climb of 210' per NM to 4400. Alternatively with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1300' prior to DER. **Rwy 24,** 300-1½ or std. w/min. climb of 438' per NM to 4500.

DEPARTURE PROCEDURE: **Rwys 2, 6,** climbing left turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold NW, right turns, 125°inbound) to cross BYI VOR/DME at or above MEA for route of flight. **Rwys 20, 24,** climbing right turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold NW, right turns, 125°inbound) to cross BYI VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 2,** tower 1.02 NM from DER, 862' right of centerline, 155' AGL/4304' MSL. Obstruction light on bridge 252' from DER, 513' left of centerline, 57' AGL/4195' MSL. Trees beginning 686' from DER, 201' right of centerline, up to 35' AGL/4184' MSL. Tree 694' from DER, 375' left of centerline, 29' AGL/4178' MSL. Obstruction light on building 736' from DER, 188' left of centerline, 11' AGL/4161' MSL. Tower 803' from DER, 590' left of centerline, 55' AGL/4204' MSL. Vehicles on road beginning 857' from DER, 1' right of centerline, up to 17' AGL/4168' MSL. Poles beginning 1226' from DER, 549' left of centerline up to 72' AGL/4222' MSL. Building vent 1240' from DER, 164' left of centerline, 27' AGL/4177' MSL. Stack 2206' from DER, 856' right of centerline, 86' AGL/4236' MSL. Stack 2573' from DER, 614' left of centerline, 86' AGL/4236' MSL. Elevators beginning 3980' from DER, 131' right of centerline, up to 133' AGL/4283' MSL. **Rwy 6,** trees beginning 46' from DER, 172' right of centerline, up to 14' AGL/4163' MSL. Rising terrain beginning 49' from DER, 326' right of centerline, up to 4149' MSL. Bush 150' from DER, 103' right of centerline, 5' AGL/4147' MSL. Antenna 586' from DER, 398' left of centerline, 15' AGL/4165' MSL. Obstruction light on bridge 1061' from DER, 80' right of centerline, 39' AGL/4179' MSL. **Rwy 20,** obstruction light pole 42' from DER, 124' left of centerline, 16' AGL/4170' MSL. Railroad beginning 65' from DER, 4' left of centerline up to 23' AGL/4177' MSL. Sign 181' from DER, 121' right of centerline, 18' AGL/4172' MSL. Vehicles on road 162' from DER, 2' left of centerline, 17' AGL/4169' MSL. Vehicles on road beginning 335' from DER, 348' right of centerline, up to 17' AGL/4171' MSL. Pole 446' from DER, 210' right of centerline, 26' AGL/4180' MSL. Antenna 523' from DER, 337' right of centerline, 63' AGL/4217' MSL. Tree 586' from DER, 213' right of centerline, 28' AGL/4182' MSL. Trees beginning 2014' from DER, 339' left of centerline, up to 96' AGL/4251' MSL.

BURLEY, ID (CON'T)

BURLEY MUNI (BYI) (CON'T)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Rwy 24, vehicles on road beginning 25' from DER, 9' left of centerline, up to 15' AGL/4169' MSL. Fence 58' from DER, 8' left of centerline, 4' AGL/4154' MSL. Rising terrain beginning 69' from DER, 201' right of centerline, up to 4154' MSL. Railroad 152' from DER, 6' left of centerline, 23' AGL/4176' MSL. Trees beginning 427' from DER, 101' right of centerline, up to 69' AGL/4223' MSL. Vehicles on road beginning 509' from DER, 586' right of centerline, up to 15' AGL/4169' MSL. Railroad beginning 568' from DER, 288' right of centerline, up to 23' AGL/4177' MSL. Pole 735' from DER, 185' left of centerline, 18' AGL/4172' MSL. Light standard 824' from DER, 58' right of centerline, 23' AGL/4177' MSL. Antenna 1630' from DER, 112' left of centerline, 58' AGL/4212' MSL. Tower 2766' from DER, 175' left of centerline, 123' AGL/4282' MSL. Tower 3570' from DER, 158' right of centerline, 157' AGL/4312' MSL. Obstruction light on elevators beginning 3115' from DER, 164' left of centerline, up to 184' AGL/4344' MSL. Building 5.12 NM from DER, 149' left of centerline, 158' AGL/4323' MSL.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL (BVS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 16035 (FAA)

TAKEOFF MINIMUMS: **Rwy 4,** NA-Environmental.

DEPARTURE PROCEDURE: **Rwy 11,** climbing right turn heading 245°to intercept CVV VOR/DME R-022 thence … **Rwy 22,** climb heading 220°to 1500, then intercept CVV R-014, thence …

Rwy 29, climb heading 290°to 1000, then climbing left turn on heading 165°to intercept CVV R-015, thence … ... to CVV VOR/DME, climb in holding pattern (hold south, left turns, 346°inbound) to cross CVV VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 11,** fence 20' from DER, 390' left of centerline, 4' AGL/105' MSL. Trees beginning 1418' from DER, 832' right of centerline, up to 140' AGL/196' MSL. **Rwy 22,** ground beginning 13' from DER, 362' right of centerline, up to 97' MSL. Bush 169' from DER, 287' right of centerline, 30' AGL/120' MSL. Tree 509' from DER, 525' right of centerline, 30' AGL/133' MSL. Tree 774' from DER, 507' left of centerline, 70' AGL/141' MSL. Tanks beginning 913' from DER, 578' left of centerline, 55' AGL/130' MSL. Trees beginning 1096' from DER, 543' right of centerline, up to 120' AGL/211' AGL. Trees beginning 1388' from DER, 563' left of centerline, up to 120' AGL/188' MSL. Trees beginning 1743' from DER, 791' right of centerline, up to 130' AGL/222' MSL. Trees beginning 1800' from DER, 587' left of centerline, up to 110' AGL/177' MSL. Tree 1887' from DER, 807' right of centerline, 150' AGL/230' MSL. **Rwy 29,** ground 25' from DER, 431' right of centerline, 146' MSL. Tree 40' from DER, 485' right of centerline, 40' AGL/182' MSL. Trees 64' from DER, 470' left of centerline, 50' AGL/189' MSL. Trees 485' from DER, 575' right of centerline, up to 100' AGL/240' MSL. Trees 1732' from DER, 952' left of centerline, up to 130' AGL/247' MSL. Trees 4325' from DER, 68' right of centerline, 140' AGL/272' MSL.

BURNS, OR

BURNS MUNI (BNO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 04218 (FAA)

DEPARTURE PROCEDURE: **Rwy 3,** climbing right turn, thence...
Rwy 12, climb to 4600 via heading 117°, thence...
Rwys 21, 30, climbing left turn, thence…
...All aircraft departing on ILR R-072 CW R-209, climb on course. All others climb on ILR R-123 within 10 NM to cross ILR VOR/DME at or above 5000.

NOTE: **Rwy 21,** pole 820' from DER, 357' left of centerline, 20' AGL/4169' MSL.

BUTTE, MT

BERT MOONEY (BTM)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 5 07074 (FAA)

TAKEOFF MINIMUMS: **Rwy 11**, NA-obstacles. **Rwy 15,** std. w/ min. climb of 601' per NM to 7300, or 3300-3 for climb in visual conditions. **Rwy 29,** std. w/ min. climb of 832' per NM to 6700, or 3300-3 for climb in visual conditions. **Rwy 33,** std. w/ min. climb of 355' per NM to 6800, or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15,** climbing right turn direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence. . .**Rwy 29,** climb heading 293°to intercept CPN VOR/DME R-082 to CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence. . . **Rwy 33,** climb direct CPN VOR/DME, or for climb in visual condtions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence. . .
. . .climb in CPN VOR/DME holding pattern (hold north, left turn, 166°inbound) to cross CPN VOR/DME at or above MEA before proceeding enroute.

NOTE: **Rwy 15,** multiple trees beginning 2 NM from DER, 1779' right of centerline, up to 100' AGL/6659' MSL. Tree 2.1 NM from DER, 66' left of centerline, 100' AGL/5934' MSL. **Rwy 29,** multiple trees and poles beginning 364' from DER, 7' right of centerline, up to 100' AGL/5621' MSL. Multiple trees and lights beginning 322' left of centerline, up to 100' AGL/5582' MSL. Terrain and numerous trees beginning 1.2 NM from DER, 1022' left of centerline, up to 100' AGL/6379' MSL. **Rwy 33,** flag pole 1095' from DER, 730' left of centerline, 64' AGL/5583' MSL.

CALDWELL, ID

CALDWELL INDUSTRIAL (EUL)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 5 05244 (FAA)

TAKEOFF MINIMUMS: **Rwy 12,** std. with a min. climb of 300' per NM to 5600, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12,** climb via heading 119°to 5600 before proceeding on course. For climb in visual conditions: Cross Caldwell Industrial Airport at or above 4800 before proceeding on course. **Rwy 30,** climb via heading 299°to 4400 before proceeding on course.

NOTE: **Rwy 12,** levee 198' from DER, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from DER, 877' right of centerline, up to 100' AGL/2505' MSL. **Rwy 30,** multiple poles 206' from DER, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from DER, 246' right of centerline, 21' AGL/2439' MSL.

CASPER, WY

CASPER/NATRONA COUNTY INTL (CPR)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 12264 (FAA)

DEPARTURE PROCEDURE: **Rwy 3,** climbing left turn on DDY R-202, to DDY VOR/DME before proceeding on course. **Rwy 8,** climbing left turn on DDY R-190, to DDY VOR/DME before proceeding on course. **Rwy 21,** climbing right turn on DDY R-215, to DDY VOR/DME before proceeding on course. **Rwy 26,** climbing right turn on DDY R-223, to DDY VOR/DME before proceeding on course.

CHEHALIS, WA

CHEHALIS-CENTRALIA (CLS)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 12208 (FAA)

TAKEOFF MINIMUMS: **Rwy 16,** 400-2¾ or std. w/min. climb of 240' per NM to 700. **Rwy 34,** std. w/min. climb of 210' per NM to 500.

DEPARTURE PROCEDURE: **Rwy 16,** climb heading 162°to 1000, then climbing left turn to 4000 heading 001°and OLM R-151 to OLM VORTAC then proceed on course. **Rwy 34,** climb to 4000 on OLM R-176 to OLM VORTAC then proceed on course.

NOTE: **Rwy 16,** multiple buildings beginning 1560' from DER, left and right of centerline, up to 40' AGL/220' MSL. Pole 136' from DER, 435' left of centerline, 30' AGL/233' MSL. Trees beginning 523' from DER, left and right of centerline, up to 100' AGL/518' MSL. **Rwy 34,** trees beginning 1679' from DER, left and right of centerline, up to 100' AGL/317' MSL. Building 7169' from DER, 1968' left of centerline, 30' AGL/357' MSL.

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON FIELD (CYS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 12264 (FAA)

DEPARTURE PROCEDURE: **Rwy 31,** climb heading 306°to 6700 before turning left.

NOTE: **Rwy 13,** fence beginning 30' from DER, 246' right of centerline, up to 9' AGL/6126' MSL. Trees beginning 48' from DER, left and right of centerline, up to 68' AGL/6177' MSL. Multiple poles beginning 165' from DER, left and right of centerline, up to 27' AGL/6136' MSL. **Rwy 27,** localizer antenna 404' from DER, on centerline, 10' AGL/6156' MSL. Light on localizer antenna, 408' from DER, 49' left of centerline, 10' AGL/6156' MSL. Vehicles on road beginning 422' from DER, 247' left of centerline, up to 15' AGL/6162' MSL. Trees beginning 514' from DER, left and right of centerline, up to 65' AGL/6224' MSL. Multiple poles beginning 741' from DER, left and right of centerline, up to 60' AGL/6203' MSL. **Rwy 31,** trees beginning 140' from DER, left and right of centerline, up to 57' AGL/6226' MSL. Vehicles on road beginning 193' from DER, 248' left of centerline, up to 15' AGL/6179' MSL. Fence beginning 196' from DER, 1' left of centerline, 9' AGL/6175' MSL. Sign 370' from DER, 59' left of centerline, 9' AGL/6171' MSL. Multiple poles beginning 383' from DER, left and right of centerline, up to 35' AGL/6229' MSL. Sign 3248' from DER, 600' left of centerline, 56' AGL/6244' MSL.

CHOTEAU, MT

CHOTEAU (CII)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 10322 (FAA)

TAKEOFF MINIMUMS: **Rwy 5,** std. w/ min. climb of 280' per NM to 11600 or 2900-3 for climb in visual conditions. **Rwy 14,** std. w/ min. climb of 280' per NM to 11500 or 2900-3 for climb in visual conditions. **Rwys 23, 32,** std. w/ min. climb of 310' per NM to 11800 or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 5,14, 23,32,** for climb in visual conditions cross Choteau Airport at or above 6700 before proceeding on course.

NOTE: **Rwy 5,** vehicle on road 86' from DER, 154' left of centerline, 15' AGL/3954' MSL. **Rwy 14,** aircraft on twy 10' from DER, 436' right of centerline, 10' AGL/3951' MSL. Tree 1959' from DER, 624' left of centerline, 100' AGL/4059' MSL. **Rwy 23,** vehicle on road, 8' from DER,179' right of centerline, 15' AGL/3954' MSL. Vehicle on road, 11' from DER, 236' left of centerline, 15' AGL/3954' MSL.

CIRCLE, MT

CIRCLE TOWN COUNTY (4U6)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 12320 (FAA)

TAKEOFF MINIMUMS: **Rwy 12,** std. w/min. climb of 221' per NM to 2900, or 1000-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12,** For climb in visual conditions cross Circle Town County airport at or above 3400 MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.

NOTE: **Rwy 12,** fence 8332' from DER, 1042' left of centerline, 3' AGL/2672' MSL. Fence 122' from DER, 210' right of centerline, 3' AGL/2445' MSL. Ground 1797' from DER, 235' left of centerline 2669' MSL. Vehicle on road 231' from DER, 464' left of centerline, 15' AGL/2485' MSL. Vehicle on road 76' from DER, 343' right of centerline, 15' AGL/2463' MSL. **Rwy 30,** tree 656' from DER, 569' right of centerline, 37' AGL/2459' MSL. Vehicle on road 13' from DER, 202' left of centerline, 15' AGL/2441' MSL. Railroad 403' from DER, 121' right of centerline, 23' AGL/2446' MSL. Pole 851' from DER, 455' right of centerline, 24' AGL/2450' MSL.

CODY, WY

YELLOWSTONE RGNL (COD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 10042 (FAA)

TAKEOFF MINIMUMS: **Rwy 4,** std. with a min. climb of 400' per NM to 8000' or 4200-3 for climb in visual conditions. **Rwy 22,** std. with a min. climb of 385' per NM to 7400' or 4200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4,** climb heading 038° to 5900, then climbing left turn via COD R-171 to COD VOR/DME or for climb in visual conditions to cross Yellowstone Rgnl at or above 9400, then via COD R-189 to COD VOR/DME to cross COD VOR/DME at or above MEA for route of flight. **Rwy 22,** climb heading 218°to 6600, then climbing left turn via COD R-180 to COD VOR/DME or for climb in visual conditions to cross Yellowstone Rgnl at or above 9400, then via COD R-189 to COD VOR/DME to cross COD VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 4,** trees beginning 100' from DER, 262' right of centerline, up to 79' AGL/5199' MSL. Rising terrain beginning 1723' from DER, 304' right of centerline, up to 5146' MSL. **Rwy 22,** poles beginning 1 NM from DER, 406' right of centerline, up to 60' AGL/5332' MSL. Rising terrain beginning 1 NM from DER, 109' right of centerline, up to 6235' MSL. Rising terrain beginning 5074' from DER, 131' left of centerline, up to 5428' MSL.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY BOYINGTON FIELD (COE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 9 10042 (FAA)

DEPARTURE PROCEDURE: use COEUR D'ALENE DEPARTURE.

04 FEB 2016 to 03 MAR 2016
04 FEB 2016 to 03 MAR 2016

COLSTRIP, MT

COLSTRIP (M46)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 08157 (FAA)

TAKEOFF MINIMUMS: **Rwy 6** use CISPU (RNAV) DEPARTURE. **Rwy 24,** use CONUK (RNAV) DEPARTURE.

CONRAD, MT

CONRAD (S01)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 12292 (FAA)

DEPARTURE PROCEDURE: **Rwy 24,** climb runway heading to 4300, then continue climb on course.

NOTE: **Rwy 6,** antenna tower 307' from DER, 511' left of centerline, 40' AGL/3565' MSL.

CORVALLIS, OR

CORVALLIS MUNI (CVO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 15176 (FAA)

TAKEOFF MINIMUMS: **Rwy 09,** std. w/min. climb gradient of 270' per NM to 2900 or 3300-3 for VCOA. **Rwy 17,** std. w/min. climb gradient of 271' per NM to 2900 or 3300-3 for VCOA. **Rwy 27,** std. w/min. climb gradient of 337' per NM to 3100 or 3300-3 for VCOA. **Rwy 35,** std. w/min. climb gradient of 350' per NM to 3100 or 3300-3 for VCOA.

DEPARTURE PROCEDURE: **Rwy 09,** climb heading 094°to 1200, then climbing left turn direct CVO VOR/DME, thence . . . **Rwy 17,** climb heading 169°to 1300, then climbing left turn direct CVO VOR/DME, thence . . . **Rwy 27,** climb heading 274°to 1600, then climbing right turn direct CVO VOR/DME, thence . . . **Rwy 35,** climb heading 349°to 1600, then climbing right turn direct CVO VOR/DME, thence . . . . . Climb in CVO VOR/DME holding pattern (east, right turn, 261° inbound) to depart CVO VOR/DME at or above 3400.

VISUAL CLIMB: All runways: Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross CVO VOR/DME at or above 3400.

NOTE: **Rwy 09,** multiple trees beginning 322' from DER, left and right of centerline, up to 163' AGL/383' MSL. Railroad beginning 301' from DER, left and right of centerline, up to 34' AGL/264' MSL. **Rwy 27,** OL on GS, 433' from DER, 325' left of centerline, 35' AGL/275' MSL. Tree 39' from DER, 467' right of centerline, 6' AGL/246' MSL. **Rwy 35,** multiple trees beginning 3' from DER, left and right of centerline, up to 43' AGL/283' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 15176 (FAA)

Rwy 17, heading as assigned by ATC. **Rwy 35,** heading as assigned by ATC; requires minimum climb of 210' per NM to 800.

COWLEY/LOVELL/BYRON, WY

NORTH BIG HORN COUNTY (U68)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 13346 (FAA)

DEPARTURE PROCEDURE: **Rwy 9, all aircraft -** aircraft departing on HCY NDB bearings 130°CW 225°, climb heading 095°to 4800 then climb on course. All others, climb to 4800 then climbing right turn direct HCY NDB. Climb in HCY NDB holding pattern (hold W, right turns, 078°inbound) to cross HCY NDB at or above 9500 before proceeding on course. **Rwy 27, all aircraft -** aircraft departing on HCY NDB bearings 130°CW 225°, climb heading 275°to 4800 then climb on course. All others, climb to 4800 then climbing left turn direct HCY NDB, climb in HCY NDB holding pattern (hold W, right turns, 078°inbound) to cross HCY NDB at or above 9500 before proceeding on course.

NOTE: **Rwy 9,** vehicles on road beginning 18' from DER, 451' left of centerline, up to 15' AGL/4114' MSL. Vertical structure 13' from DER, 420' right of centerline, up to 4' AGL/4096' MSL. Light support structure 8' from DER, 17' right of centerline, up to 2' AGL/4095' MSL. **Rwy 27,** NAVAIDs beginning 40' from DER, left and right of centerline, up to 6' AGL/4085' MSL. Ground beginning 137' from DER, 512' left of centerline, up to 4087' MSL. Vertical structure beginning 181' from DER, 466' left of centerline, up to 11' AGL/4090' MSL. Vertical structure beginning 298' from DER, 323' left of centerline, up to 9' AGL/3091' MSL. Vertical structure beginning 300' from centerline, 311' left of centerline, up to 11' AGL/4092' MSL. Vehicles on road beginning 551' from DER, left and right of centerline, up to 15' AGL/4108' MSL. Pole beginning 1558' from DER, 793' right of centerline, up to 29' AGL/4128' MSL.

CUT BANK, MT

CUT BANK INTL (CTB)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 14317 (FAA)

NOTE: **Rwy 5,** runway light 11' from DER, 17' left of centerline, 1' AGL/3842' MSL. **Rwy 14,** runway light 9' from DER, 48' left of centerline, 2' AGL/3843' MSL. REIL 12' from DER, 114' right of centerline, 3' AGL/3844' MSL. **Rwy 23,** fence 4' from DER, 239' right of centerline, 6' AGL/3857' MSL, runway lights beginning 8' from DER, left and right of centerline, up to 1' AGL/3855' MSL. Fence 122' from DER, 240' right of centerline, 5' AGL/3857' MSL. **Rwy 32,** runway lights beginning 9' from DER, left and right of centerline, up to 2' AGL/3859' MSL.

DEER LODGE, MT

DEER LODGE-CITY-COUNTY (38S)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 13010 (FAA)

TAKEOFF MINIMUMS: **Rwy 13,** std. w/min. climb of 275' per NM to 5700 or 2300-3 for climb in visual conditions. **Rwy 31,** std. w/min. climb of 370' per NM to 7000 or 2300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13, 31,** climbing right turn heading 218° to 9700 to intercept CPN VOR/DME R-339 to CPN VOR/DME and hold, continue climb-in-hold (hold north, left turn, 166° inbound) to cross CPN VOR/DME at or above MEA of intended route before proceeding on course, or for climb in visual conditions cross Deer Lodge-City-County airport at or above 6800 then proceed on CPN R-339 to CPN VOR/DME, continue climb-in-hold (hold north, left turn, 166° inbound) to cross CPN VOR/DME at or above MEA of intended route before proceeding on course. When executing VCOA, notify ATC prior to departure.

NOTE: **Rwy 13,** road beginning 3' from DER, 321' right of centerline, 4658' MSL, light support structure 9' from DER, 28' left of centerline, 3' AGL/4630' MSL, terrain 27' from DER, 160' right of centerline, 4631' MSL. Fence 128' from DER, 498' right of centerline, 10' AGL/4650' MSL. **Rwy 31,** road beginning at DER, 270' left of centerline, 4757' MSL, Light support structure 10' from DER, 27' left of centerline, 3' AGL/4695' MSL. Terrain beginning 155' from DER, 93' left of centerline, 4743' MSL. Terrain beginning 536' from DER, 438' right of centerline, 4715' MSL. Terrain beginning 1832' from DER, 678' left of centerline, 4758' MSL. Road beginning 1429' from DER, extending 869' left of centerline to 278' right of centerline, 4769' MSL. Vertical structures 1577' from DER, 497' left of centerline, 5' AGL/4754' MSL. Tree 2269' from DER, 412' left of centerline, 25' AGL/4785' MSL. Poles beginning 4292' from DER, 1225' right of centerline, 50' AGL/4891' MSL. Road beginning 4577' from DER, 1627' left of centerline, 4898' MSL. Terrain beginning 4824' from DER, 30' left of centerline, 4932' MSL. Agriculture equipment beginning 5237' DER, extending 71' left of centerline to 1202' right of centerline, 15' AGL/4845' MSL.

DEER PARK, WA

DEER PARK (DEW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 10098 (FAA)

TAKEOFF MINIMUMS: **Rwy 34,** 300-1½ or std. with a min. climb of 455' per NM to 2500.

DEPARTURE PROCEDURE: **Rwy 5,** climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 16,** climb heading 164° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 23,** climbing left turn heading 155° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 34,** climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC.

NOTE: **Rwy 5,** aircraft 261' from DER, 511' left of centerline, up to 21' AGL/2210' MSL. Trees beginning 1809' from DER, 413' left of centerline, up to 109' AGL/2299' MSL. Aircraft 104' from DER, 186' right of centerline, up to 21' AGL/2200' MSL. Trees beginning 1667' from DER, 373' right of centerline, up to 116' AGL/2319' MSL. **Rwy 16,** trees beginning 31' from DER, 455' left of centerline, up to 109' AGL/2279' MSL. Trees beginning 2587' from DER, 621' right of centerline, up to 104' AGL/2264' MSL. **Rwy 23,** trees beginning 1461' from DER, 211' right of centerline, up to 90' AGL/2270' MSL. **Rwy 34,** aircraft 23' from DER, 218' left of centerline, up to 21' AGL/2230' MSL. Trees beginning 2678' from DER, 18' left of centerline, up to 165' AGL/2375' MSL. Vehicles beginning 74' from DER, 339' right of centerline, up to 15' AGL/2234' MSL. Trees beginning 2219' from DER, 260' right of centerline, up to 100' AGL/2382' MSL.

DILLON, MT

DILLON (DLN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3A 15288 (FAA)

TAKEOFF MINIMUMS: **Rwy 4,** NA-Obstacles. **Rwy 35,** DME required. **Rwy 17**, std. w/min. climb of 219' per NM to 6400 or 3700-3 for climb in visual conditions. **Rwy 22,** 3700-3 for climb in visual conditions

DEPARTURE PROCEDURE: **Rwy 4,** climbing left turn thence. ..

Rwy 17, climbing right turn heading 042° thence … or for climb in visual conditions cross Dillon airport at or above 9000 before proceeding on course. When executing VCOA, notify ATC prior to departure. **Rwy 22,** for climb in visual conditions cross Dillon airport at or above 9000 before proceeding on course. When executing VCOA, notify ATC prior to departure. **Rwy 35,** climbing right turn thence … .... climb to 8900 on DLN R-005 to YARUP/DLN 19 DME fix. Aircraft departing north on V21 continue climb to MEA and proceed on course. Aircraft departing south on V121 and V21-257, climbing left turn heading 140° to intercept DLN R-005 southbound, cross DLN VOR/DME at or above 10000 before proceeding on course.

NOTE: **Rwy 4,** light 9' from DER, 19' right of centerline, 3' AGL/5229' MSL. Fence 96' from DER, 251' right of centerline, 13' AGL/5234' MSL. Vehicles on roadway beginning 211' from DER, left and right of centerline, up to 15' AGL/5246' MSL. **Rwy 17,** light 7' from DER, 27' left of centerline, 3' AGL/5247' MSL. Vehicles on roadway beginning 13' from DER, left and right of centerline, up to 15' AGL/5262' MSL. Pole 850' from DER, 507' left of centerline, 33' AGL/5274' MSL. **Rwy 22,** light 10' from DER, 20' right of centerline, 2' AGL/5223' MSL. Vehicles on roadway beginning 13' from DER, left and right of centerline, up to 15' AGL/5236' MSL. **Rwy 35,** vehicles on roadway beginning 6' from DER, left and right of centerline, up to 15' AGL/5170' MSL. Light 9' from DER, 27' left of centerline, 2' AGL/5158' MSL.

DOUGLAS, WY

CONVERSE COUNTY (DGW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 13150 (FAA)

TAKEOFF MINIMUMS: **Rwy 5,** 300-2 or std. w/min. climb of 271' per NM to 5200. **Rwy 23,** 1700-3 or std. with a min. climb of 260' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 5,** climbing right turn via IIP VOR/DME R-342 to IIP VOR/DME. **Rwy 11,** climbing right turn via IIP VOR/DME R-312 to IIP VOR/DME. **Rwy 23,** climbing left turn via IIP VOR/DME R-264 to IIP VOR/DME. **Rwy 29,** climbing right turn via IIP VOR/DME R-325 to IIP VOR/DME. **All aircraft** departing IIP R-253 CW R-180 climb on course. All others continue climb in IIP VOR/DME holding pattern (NW, left turns, 125°inbound) to cross IIP VOR/DME at or above: R-181 CW R-199 9600; R-200 CW R-252 8000.

NOTE: **Rwy 5,** trees 1883' from DER, 549' right of centerline, 35' AGL/5014' MSL. Trees 3407' from DER, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from DER, 1954' right of centerline, 35' AGL/5132' MSL. Terrain 5020' from DER, 1805' right of centerline, 5089' MSL. **Rwy 23,** trees 2068' from DER, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from DER, 1215' left of centerline, 35' AGL/5014' MSL.

DRIGGS, ID

DRIGGS-REED MEMORIAL (DIJ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 11349 (FAA)

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

EASTSOUND, WA

ORCAS ISLAND (ORS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 16035 (FAA)

TAKEOFF MINIMUMS: **Rwy 16,** 3200-3 for VCOA. **Rwy 34,** 500-3 or std. w/min. climb of 224' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 34,** climbing right turn to intercept HUH VORTAC R-210 to HUH VORTAC, thence… ...Climb in HUH holding pattern, hold south, left turns, 352°inbound, to cross HUH VORTAC at or above 3800 before proceeding on course.

VISUAL CLIMB: **Rwy 16,** obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Orcas Island airport at or above 3200 before proceeding on course.

NOTE: **Rwy 16,** terrain beginning 9' from DER, 125' right of centerline, 37' MSL. Vehicles on road and tree beginning 15' from DER, 362' right of centerline, up to 15' AGL/66' MSL. Vehicles on road beginning 61' from DER, 301' left of centerline, 15' AGL/51' MSL. Building and rising terrain beginning 102' from DER, 259' right of centerline, up to 35' AGL/71' MSL. Tree 182' from DER, 393' right of centerline, up to 35' AGL/89' MSL. Trees beginning 194' from DER, 466' right of centerline, up to 95' AGL/151' MSL. Windsock, fence, and trees beginning 196' from DER, left and right of centerline, up to 65' AGL/106' MSL. Trees on rising terrain beginning 591' from DER, left and right of centerline, up to 80' AGL/120' MSL. Building and trees on rising terrain beginning 939' from DER, left and right of centerline, up to 100' AGL/177' MSL. Buildings and trees beginning 1096' from DER, left and right of centerline, up to 100' AGL/182' MSL. Pole, building, and trees beginning 1751' from DER, left and right of centerline, up to 100' AGL/199' MSL. Trees beginning 2059' from DER, left and right of centerline, up to 100' AGL/208' MSL. Trees beginning 2104' from DER, left and right of centerline, up to 100' AGL/224' MSL. Trees beginning 2244' from DER, left and right of centerline, up to 100' AGL/225' MSL. Trees beginning 2104' from DER, left and right of centerline, up to 100' AGL/224' MSL. Building and trees on rising terrain beginning 2519' from DER, left and right of centerline, up to 100' AGL/245' MSL. Trees beginning 2883' from DER, 884' right of centerline, up to 100' AGL/258' MSL. Trees beginning 2909' from DER, 243' left of centerline to 1169' right of centerline, up to 100' AGL/327' MSL. Tree 2972' from DER, 1074' right of centerline, 100' AGL/344' MSL. Trees beginning 2986' from DER, 14' right of centerline, up to 100' AGL/366' MSL. Building and trees beginning 3092' from DER, from 397' left of centerline to 1133' right of centerline, up to 100' AGL/381' MSL. Trees beginning 3133' from DER,191' left of centerline to 1336' right of centerline, up to 100' AGL/400' MSL. Building and trees on rising terrain beginning 3280' from DER, 90' right of centerline, up to 100' AGL/410' MSL. **Rwy 34,** tree and vehicles on road beginning 3' from DER, 106' right of centerline, up to 15' AGL/29' MSL. Tree, fence, and vehicles on road beginning 18' from DER, 155' left of centerline, up to 15' AGL/22' MSL. Tree 192' from DER, 427' left of centerline, 35' AGL/50' MSL. Trees beginning 201' from DER, 266' left of centerline, up to 40' AGL/68' MSL. Building and trees beginning 275' from DER, 366' left of centerline, up to 45' AGL/71' MSL. Vehicles on road beginning 321' from DER, from 109' left to 611' right of centerline, up to 15' AGL/30' MSL. Trees beginning 2.5 NM from DER, 82' right of centerline up to 100' AGL/339' MSL.

ELLENSBURG, WA

BOWERS FIELD (ELN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 14037 (FAA)

TAKEOFF MINIMUMS: **Rwys 7,11,** 4600-3 or std. with a min. climb of 290' per NM to 7800. **Rwy 25,** 4700-3 or std. with a min. climb of 340' per NM to 7800. **Rwy 29,** 4600-3 or std. with a min. climb of 320' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 7, 29,** climbing right turn direct ELN VORTAC. **Rwys 11, 25,** climbing left turn direct ELN VORTAC. **All aircraft,** continue climbing in the ELN VORTAC holding pattern (W, right turns, 087° inbound) to MEA/ MOCA for route of flight.

NOTE: **Rwy 7,** fence 1' from DER, 438' left of centerline, 17' AGL/1772' MSL. Fence and trees 138' from DER, 207' left of centerline, up to 24' AGL/1779' MSL. Fence 532' from DER, 41' left of centerline, 14' AGL/1769' MSL. Trees 1149' from DER, 270' left of centerline, up to 40' AGL/1795' MSL. Poles 1853' from DER, 140' left of centerline, up to 50' AGL/1805' MSL. **Rwy 11,** tree 1794' from DER, 676' left of centerline, 75' AGL/1822' MSL. **Rwy 25,** fence 151' from DER, 293' right of centerline, 5' AGL/1714' MSL. Tree 2060' from DER, 465' left of centerline, 61' AGL/1770' MSL. **Rwy 29,** fence and tree 152' from DER, 283' left of centerline, up to 11' AGL/1774' MSL. Trees 144' from DER, 263' right of centerline, up to 19' AGL/1782' MSL. Tree 1974' from DER, 463' right of centerline, 61' AGL/1824' MSL.

ENNIS, MT

ENNIS-BIG SKY (EKS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 14037 (FAA)

DEPARTURE PROCEDURE: **Rwys 16, 34,** Use ENNIS (RNAV) DEPARTURE.

EPHRATA, WA

EPHRATA MUNI (EPH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 09127 (FAA)

TAKEOFF MINIMUMS: **Rwy 29,** NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 3,** climb heading 027° to 2300 before proceeding on course. **Rwy 11,** climb heading 112° to 2200 before proceeding on course. **Rwy 21,** climb heading 207° to 2800 before proceeding on course.

EUGENE, OR

MAHLON SWEET FIELD (EUG)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 7A 13122 (FAA)

DEPARTURE PROCEDURE: **Rwys 16L, 16R,** climb heading 163° to 1200 then climbing right turn... **Rwys 34L, 34R,** climb heading 343° to 1200 then climbing left turn...

...all aircraft climb direct EUG VORTAC, then climb in hold in EUG VORTAC holding pattern (hold north, right turns, 175° inbound) to cross EUG VORTAC at or above MEA before proceeding on course.

NOTE: **Rwy 16L,** multiple power poles beginning 1036' from DER, 74' right of centerline, up to 35' AGL/408' MSL. Multiple power poles beginning1017' from DER, 211' left of centerline, up to 31' AGL/404' MSL. **Rwy 16R,** tree 1991' from DER, 83' left of centerline, 54' AGL/419' MSL. Numerous trees beginning 1504' from DER, 489' right of centerline, up to 43' AGL/408' MSL. **Rwy 34L,** tree 1597' from DER, 842' left of centerline, 50' AGL/404' MSL. **Rwy 34R,** tree 2897' from DER, 606' right of centerline, 77' AGL/440' MSL. Tree 2535' from DER, 643' left of centerline, 65' AGL/428' MSL.

EVANSTON, WY

EVANSTON-UINTA COUNTY BURNS FIELD (EVW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 06243 (FAA)

DEPARTURE PROCEDURE: **Rwy 5**, climb via heading 050° and FBR VOR/DME R-243 to FBR VOR/DME. **Rwy 23**, climbing left turn via heading 030° and FBR VOR/DME R-243 to FBR VOR/DME.

All aircraft: cross FBR VOR/DME at or above MEA for direction of flight.

EVERETT, WA

SNOHOMISH COUNTY (PAINE FIELD) (PAE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 15344 (FAA)

DEPARTURE PROCEDURE: **Rwy 16L/R,** climbing right turn, thence...**Rwy 34L/R,** climbing left turn, thence...

...for aircraft departing on V287 westbound, climb on PAE VOR/DME R-236 to 3000. All others, climb direct PAE VOR/ DME, climb in PAE VOR/DME holding pattern (NW, RT, 149° inbound) to MEA for route of flight before proceeding on course.

NOTE: **Rwy 16R,** Rwy light 9' from DER, 15' right of centerline, 1' AGL/579' MSL. Trees beginning 707' from DER, left and right of centerline, up to 116' AGL/625' MSL. Tree 2130' from DER, 866' left of centerline, 151' AGL/660' MSL. Trees beginning 2789' from DER, left and right of centerline, up to 163' AGL/698' MSL. Trees beginning 3078' from DER, 238' left of centerline, up to 156' AGL/704' MSL. **Rwy 16L,** poles, tower and tree beginning 107' from DER, left and right of centerline, up to 42' AGL/639' MSL. Trees beginning 900' from DER, 477' left of centerline, up to 137' AGL/699' MSL. Trees beginning 1412' from DER, left and right of centerline, up to 123' AGL/668' MSL. Trees beginning 1785' from DER, 535' left of centerline, up to 155' AGL/700' MSL. Tree 4646' from DER, 912' right of centerline, 178' AGL/717' MSL. **Rwy 34R,** trees beginning 154' from DER, left and right of centerline, up to 86' AGL/648' MSL. Tree 1324' from DER, 229' left of centerline, 97' AGL/655' MSL. Trees beginning 2084' from DER, 548' right of centerline, up to 131' AGL/699' MSL. Trees beginning 2720' from DER, 114' left of centerline, up to 135' AGL/690' MSL.

FAIRCHILD AFB (KSKA)
SPOKANE, WA
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1, 12124

DEPARTURE PROCEDURE: **Rwy 5,** Climb on track 051° to intercept SKA R-048 to 5300, then on course. **Rwy 23,** climb on track 244° to 3400, then on course.

TAKEOFF OBSTACLES: **Rwy 23,** Potential Aircraft 65' AGL/2518' MSL, 98' from DER, 437' right of centerline. Terrain 2477' MSL, 493' to 511' from DER, 751' to 761' right of centerline. Terrain 2472' MSL, 1018' from DER, 621' right of centerline. Terrain 2467' MSL, 208' from DER, 405' right of centerline.

DIVERSE VECTOR AREA (AREA VECTORS)
AMDT 1 15204 (FAA)

Rwy 5, heading as assigned by ATC. **Rwy 23,** heading as assigned by ATC; requires minimum climb of 270' per NM to 3100.

FORSYTH, MT
TILLITT FIELD (1S3)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 12040 (FAA)

NOTE: **Rwy 8,** light support structure 10' from DER, 27' right of centerline, 2' AGL/2729' MSL. Terrain 64' from DER, 214' left of centerline, 2730' MSL. Vehicles on roadway 196' from DER. left and right of centerline up to 15' AGL/2748' MSL. **Rwy 26,** fence abeam DER, 250' right of centerline, up to 10' AGL/2731' MSL. Light support structure 10' from DER, 28' right of centerline, 2' AGL/2731' MSL. Vehicles on roadway beginning 141' from DER, left and right of centerline, up to 15' AGL/2746' MSL. Building 322' from DER, 573' left of centerline, 46' AGL/2755' MSL. Trees beginning 436' from DER, 78' left of centerline, up to 51' AGL/2771' MSL. Trees beginning 746' from DER, 39' right of centerline, up to 46' AGL/2766' MSL.

FORT BENTON, MT
FORT BENTON (79S)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 07074 (FAA)

TAKEOFF MINIMUMS: **Rwys 5, 23,** std. w/ min. climb of 274' per NM to 8900 or 5100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 5, 23,** for climb in visual conditions: Cross Fort Benton Airport at or above 8900 MSL before proceeding on course.

FORT BRIDGER, WY
FORT BRIDGER (FBR)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 89040 (FAA)

DEPARTURE PROCEDURE: **All aircraft** climb direct FBR VOR/DME. Aircraft departing; FBR R-210 CW R -135 climb on course; FBR R-136 CW R-209 cross FBR VOR/DME at or above 9000. (Hold NE, right turns, 215° inbound).

FRIDAY HARBOR, WA
FRIDAY HARBOR (FHR)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 3 10322

TAKEOFF MINIMUMS: **Rwy 34,** 400-2.

DEPARTURE PROCEDURE: **Rwy 16,** climb to 1000 via heading 157° then climbing left turn direct FHR NDB, thence ...

Rwy 34 climb to 1000 via heading 337° then climbing left turn direct FHR NDB, thence...

...continue climb-in-hold in FHR NDB holding pattern (Hold S, right turns, 339° inbound) to cross FHR NDB at or above 2300 before proceeding on course.

NOTE: **Rwy 16,** trees beginning 556' from DER, 20' left of centerline, up to 85' AGL/212' MSL. Trees, fence, and road beginning 27' from DER, 67' right of centerline, up to 85' AGL/220' MSL. **Rwy 34,** trees, beacon and pole beginning 385' from DER, 92' left of centerline, up to 85' AGL/348' MSL. Trees, building and antenna beginning 808' from DER, 16' right of centerline, up to 85' AGL/504' MSL.

GILLETTE, WY
GILLETTE-CAMPBELL COUNTY (GCC)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 4B 14037 (FAA)

TAKEOFF MINIMUMS: **Rwy 16,** std. w/ min. climb of 275' per NM to 5200, or 1200-3 for climb in visual conditions. **Rwy 21,** 800-3 or std. w/min. climb of 425' per NM to 5400.

DEPARTURE PROCEDURE: **Rwy 16,** climb heading 158° to 5200 before proceeding on course or for climb in visual conditions: cross Gillette-Campbell County airport at or above 5400 before proceeding on course. When executing VCOA, notify ATC prior to departure. **Rwy 21,** climb heading 206° to 5400 before proceeding on course.

NOTE: **Rwy 3,** vehicles on road beginning 3' from DER, 433' left of centerline, up to 15' AGL/4317' MSL. Light 10' from DER, 47' left of centerline, 18' AGL/4318' MSL. Runway end identifier lights 20' from DER, 113' right of centerline, 1' AGL/4319' MSL. Vehicles on road beginning 414' from DER, 589' right of centerline, up to 15' AGL/4328' MSL. Windsock 1415' from DER, 100' left of centerline, 26' AGL/4366' MSL. **Rwy 16,** vehicles on road beginning 2275' from DER, 828' left of centerline, up to 15' AGL/4434' MSL. **Rwy 21,** light 10' from DER, 47' left of centerline, 4' AGL/4344' MSL. Fence beginning 328' from DER, 267' left of centerline, up to 12' AGL/4352' MSL. Terrain 1241' from DER, 594' right of centerline, 4379' MSL. Antenna 1266' from DER, 490' right of centerline, 14' AGL/4394' MSL. Terrain 1959' from DER, 855' right of centerline, 4399' MSL. Poles beginning 3274' from DER, 960' right of centerline, up to 56' AGL/4436' MSL. Poles beginning 4850' from DER, 31' left of centerline, up to 56' AGL/4476' MSL. Transmission towers right to left of centerline 1.36 NM from DER, up to 59' AGL/4826' MSL **Rwy 34**, fence 1236' from DER, 723' left of centerline, 20' AGL/ 4380' MSL. Vehicles on road beginning 1609' from DER, left and right of centerline, up to 15' AGL/4394' MSL.

GLASGOW, MT
WOKAL FIELD/GLASGOW INTL (GGW)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 11349 (FAA)

NOTE: **Rwy 30,** terrain 6' from DER, 500' right of centerline 2291' MSL.

GLENDIVE, MT

DAWSON COMMUNITY (GDV)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 11237 (FAA)

NOTE: **Rwy 12,** light support structure beginning 8' from DER, left and right of centerline, up to 15' AGL/2456' MSL. Vehicle on road 514' from DER, 555' left of centerline, 56' AGL/2468' MSL. Windsock 6' from DER, 301' left of centerline, 29' AGL/2464' MSL.
Rwy 20, vehicle on road beginning 367' from DER, left and right of centerline, up to 36' AGL/2471' MSL.
Rwy30, trees beginning 311' from DER, 511' left of centerline, up to 10' AGL/2487' MSL. Light support structures beginning 8' from DER, left and right of centerline, up to 9' AGL/2460' MSL. Fence beginning 193' from DER, left and right of centerline, up to 34' AGL/2468' MSL. Sign 27' from DER, 200' left of centerline, 9' AGL/2460' MSL. Vehicle on road beginning 298' from DER, left and right of centerline, up to 26' AGL/2477' MSL. Vehicle on road beginning 427' from DER, 145' left of centerline, up to 26' AGL/2477' MSL. Post 428' from DER, 241' left of centerline, 23' AGL/2474' MSL.

GOODING, ID

GOODING MUNI (GNG)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 08269 (FAA)

DEPARTURE PROCEDURE: **Rwy 7,** climb heading 068°to 5000 before turning left. **Rwy 25,** climb heading 233°to 5600 before turning right.
NOTE: **Rwy 7,** rising terrain 59' from DER, 479' right of centerline, up to 3754' MSL. Fence line 653' from DER, 332' right of centerline, 12' AGL up to 3751' MSL. Bushes starting 877' from DER, 420' right of centerline, 20' AGL up to 3795' MSL. **Rwy 25,** vehicle on road, 91' from DER, 257' left of centerline, up to 10' AGL/3678' MSL.

GRANGEVILLE, ID

IDAHO COUNTY (GIC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 08157 (FAA)

TAKEOFF MINIMUMS: **Rwy 7,** NA - Obstacles.
DEPARTURE PROCEDURE: **Rwy 25,** Use MELLR DEPARTURE.

GRANTS PASS, OR

GRANTS PASS (3S8)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 12208 (FAA)

TAKEOFF MINIMUMS: **Rwy 13,** NA - terrain. **Rwy 31,** std. w/min. climb of 466' per NM to 4400.
DEPARTURE PROCEDURE: **Rwy 31,** climb heading 320°and RBG R-169 to RBG VOR/DME before proceeding on course.
NOTE: **Rwy 31,** trees beginning 188' from DER, 281' left of centerline, up to 100' AGL/1194' MSL. Trees beginning 93' from DER, 283' right of centerline, up to 100' AGL/1194' MSL.

GRAY AAF (KGRF),

JOINT BASE LEWIS MCCHORD, WA
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3, 14009

Rwy 15, Standard
Rwy 33, 300-1*
* Or standard with a minimum climb of 469/NM to 600. (Not for Civil Use).
DEPARTURE PROCEDURE: **Rwy 15,** Climbing left turn direct GRF NDB, thence.... **Rwy 33,** Climb direct GRF NDB, thence....
.... Aircraft departing 330°CW 065°and 134°CW 265°bearing from GRF NDB climb on course. All others continue climb in GRF NDB holding pattern (Hold NW, RT, 151°inbound) to cross GRF NDB at or above: 065°CW 134°bearing from GRF NDB, 8700; 265°CW 330°bearing from GRF NDB, 1500(ADF REQUIRED).
TAKE-OFF OBSTACLES: **Rwy 15,** Trees 100' AGL/439' MSL, 1823' from DER, 750' right of centerline. **Rwy 33,** Trees 100' AGL/479' MSL, 2482' from DER, 1163' left of centerline.

GREAT FALLS, MT

GREAT FALLS INTL (GTF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 07018 (FAA)

NOTE: **Rwy 7,** obstruction light on lighted wind sock 237' from DER, 519' left of centerline, 34' AGL/3694' MSL. Obstruction light on building 2226' from DER, 614' left of centerline, 78' AGL/3738' MSL. Building on 681' from DER, 583' right of centerline, 48' AGL/3688' MSL. Multiple light poles beginning 1359' from DER, 440' right of centerline, up to 90' AGL/3746' MSL. **Rwy 21,** pole 1544' from DER, 791' left of centerline, 45' AGL/3725' MSL. **Rwy 25,** windmill 2.3 NM from DER, 4197' right of centerline, 338' AGL/4003' MSL.

GREYBULL, WY

SOUTH BIG HORN COUNTY (GEY)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 13066 (FAA)

TAKEOFF MINIMUMS: **Rwys 7,16,25,** std. w/min. climb of 310' per NM to 5700 or 4600-3 for climb in visual conditions. **Rwy 34,** std. w/min. climb of 465' per NM to 5700 or 4600-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 7,16,25,** climb to 4800 then climbing right turn thence …
Rwy 34, climbing left turn thence …
... Proceed direct GEY NDB. Climb in GEY holding pattern (hold SE, left turns, 318°inbound) cross GEY NDB at or above 8000 before proceeding on course. For climb in visual conditions: cross South Big Horn County airport at or above 8400' MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.

NOTE: **Rwy 7,** trees at DER, 313' left of centerline, 21' AGL/3921' MSL. Road beginning 8' from DER, 473' left of centerline, up to 15' AGL/3932' MSL. Pole, buildings and fences beginning 74' from DER, 408' right of centerline, up to 50' AGL/3950' MSL. Aircraft 337' from DER, 540' left of centerline, 40' AGL/3940' MSL. **Rwy 16,** light support structures beginning 9' from DER, 55' left and right of centerline, up to 2' AGL/3917' MSL. **Rwy 25,** terrain, bushes and trees beginning 172' from DER, 225' right of centerline up to 55' AGL/4102' MSL. Road beginning 6937' from DER, 1749' right of centerline, up to 14' AGL/4138' MSL. Fence beginning 4' from DER, 435' left of centerline up to 5' AGL/3954' MSL. Windsock 595' from DER, 301' right of centerline, 9' AGL/3959' MSL. Telephone line 523' from DER, 622' left of centerline, 19' AGL/3969' MSL. **Rwy 34,** light support structures beginning 9' from DER, 54' right and left of centerline, up to 2' AGL/3906' MSL.

GUERNSEY, WY

CAMP GUERNSEY (GUR)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 11097 (FAA)

TAKEOFF MINIMUMS: **Rwy 14,**300-2½ or std. w/min. climb of 363' per NM to 4800. **Rwy 32,** std. w/min. climb of 360' per NM to 6500 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14,** climb heading 141°to 5800 before proceeding on course. **Rwy 32,** climbing right turn heading 070°to 6500 before proceeding on course or for climb in visual conditions cross Camp Guernsey Airport at or above 6700 before proceeding on course.

NOTE: **Rwy 14,** vehicles on road 42' from DER, 209' right of centerline, up to 15' AGL/4334' MSL. Trees beginning 731' from DER, 336' right of centerline, up to 45' AGL/4564' MSL. **Rwy 32,** trees beginning 181' from DER, 155' left of centerline, up to 45' AGL/4424' MSL. Trees beginning 999' from DER, 192' right of centerline, up to 45' AGL/4504' MSL.

HAILEY, ID

FRIEDMAN MEMORIAL (SUN)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 2 14121 (FAA)

TAKEOFF MINIMUMS: **Rwy 31,** NA - obstacles. **Rwy 13,** 900-2½ w/min. climb of 400' per NM to 7000, or std. w/ min. climb of 590' per NM to 7000, or 3600-3 for climb in visual conditions. When executing VCOA, notify ATC prior to departure.

DEPARTURE PROCEDURE: **Rwy 13,** climb heading 144°and 162°course to HLE NDB, or for climb in visual conditions: cross Friedman Memorial Airport at or above 8800 then on 155°course to HLE NDB.

NOTE: **Rwy 13,** trees beginning 765' from DER, 4' right of centerline, up to 93' AGL/5345' MSL.

HAMILTON, MT

RAVALLI COUNTY (6S5)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 04162 (FAA)

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.

HAVRE,MT

HAVRE CITY-COUNTY (HVR)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 3 09351 (FAA)

TAKEOFF MINIMUMS: **Rwy 8,** 300-1¾ or std. w/ min. climb of 217' per NM to 3300.

DEPARTURE PROCEDURE: **Rwy 3,** climb heading 032° to 3300 then climbing left turn to 8000 direct HVR VOR/DME thence...**Rwy 8,** climb heading 077°to 3300 then climbing left turn to 8000 via HVR R-025 to HVR VOR/DME thence...**Rwy 21,** climb heading 212°to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...**Rwy 26,** climb heading 257°to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...
...continue climb in hold in HVR VOR/DME holding pattern (hold west, right turns, 094°inbound) to cross HVR VOR/DME at or above 8000 before proceeding on course.

NOTE: **Rwy 3,** pole 2682' from DER, 1044' left of centerline, 21' AGL/2680' MSL. **Rwy 8,** obstruction light on windsock 59' from DER, 224' left of centerline, 9' AGL/2588' MSL. Tree 1192' from DER, 752' left of centerline, 25' AGL/2610' MSL. Tank 1.3 NM from DER, 2287' left of centerline, 57' AGL/2797' MSL. **Rwy 26,** light on windsock, 50' from DER, 225' right of centerline, 9' AGL/2589' MSL. Trees beginning 1617' from DER, 650' right of centerline, 25' AGL/2659' MSL.

HELENA, MT
HELENA RGNL (HLN)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 10 11181 (FAA)
DEPARTURE PROCEDURE: use DIVIDE DEPARTURE.

HERMISTON, OR
HERMISTON MUNI (HRI)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 03191 (FAA)
NOTE: **Rwy 4,** tower 379' left of DER, 50' AGL/698' MSL. **Rwy 22,** light pole 456' left of DER, 44' AGL/684' MSL.

HOQUIAM, WA
BOWERMAN (HQM)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 93091 (FAA)
TAKEOFF MINIMUMS: **Rwy 6**, 600-2 or std. with a min. climb of 260' per NM to 600.
DEPARTURE PROCEDURE: **Rwy 6,** climbing right turn heading 110°. **Rwy 24,** climb runway heading. **All aircraft** climb to 600 continue climb on course.

HULETT, WY
HULETT MUNI (W43)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 07354 (FAA)
TAKEOFF MINIMUMS: **Rwy 13,** std. w/ min. climb of 450' per NM to 6300, or 500-2¼ w/ min. climb of 295' per NM to 7700, or 2200-3 for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwy 13,** climb to 7700 via heading 132° before proceeding on course, or climb in visual conditions: cross Hulett Muni Airport at or above 6300 before proceeding on course. **Rwy 31,** climbing right turn on a heading between 090° clockwise to 115° from DER to 7700 before proceeding on course.
NOTE: **Rwy 13,** road 398' from DER, 37' left of centerline, 15' AGL/4296' MSL, truck on road 1126' from DER, 346' right of centerline, 15' AGL/4334' MSL, trees beginning 4945' from DER, across centerline, up to 100' AGL/4657' MSL. **Rwy 31,** terrain 104' from DER, 420' left of centerline, 4200' MSL, terrain 344' from DER, 233' left of centerline, 4207' MSL.

IDAHO FALLS, ID
IDAHO FALLS RGNL (IDA)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 4 09351 (FAA)
DEPARTURE PROCEDURE: **All aircraft** departing IDA R -160 CW R-040 climb on course. **All others** climb direct IDA VOR/DME. Continue climb in IDA holding pattern (South, left turns, 019° inbound) to cross IDA VOR/DME at or above 7500 before proceeding on course.
NOTE: **Rwy 2,** pole 1039' from DER, 758' left of centerline, 42' AGL/4762' MSL. **Rwy 17,** trees, flagpole, building, light and vent on buildings, and vehicle on road beginning 29' from DER, 10' right of centerline, up to 84' AGL/4820' MSL. Trees and vent on building beginning 569' from DER, 22' left of centerline, up to 35' AGL/4760' MSL. Trees, antenna, and light poles beginning 1853' from DER, 26' right of centerline, up to 121' AGL/4851' MSL. **Rwy 35,** trees and railroad beginning 410' from DER, 503' right of centerline, up to 49' AGL/4769' MSL. Tree 1034' from DER, 715' left of centerline, 42' AGL/4762' MSL.

JACKSON,WY
JACKSON HOLE (JAC)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 6 04162 (FAA)
DEPARTURE PROCEDURE: **Rwy 1,** use GEYSER DEPARTURE. **Rwy 19,** use TETON DEPARTURE.

JEROME, ID
JEROME COUNTY (JER)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 2 09295 (FAA)
TAKEOFF MINIMUMS: **Rwy 9,** 500-1¾ or std. w/ min. climb of 435' per NM to 4700.
DEPARTURE PROCEDURE: **Rwy 9,** climb heading 086° to 5300 before proceeding on course. **Rwy 27**, climb heading 266° to 4800 before proceeding on course.
NOTE: **Rwy 9,** bush 140' from DER, 500' left of centerline, 16' AGL/4076' MSL. Poles starting 1432' from DER, 32' left of centerline, up to 47' AGL/4169' MSL. Sign 1473' from DER, 547' left of centerline, 49' AGL/4119' MSL. Obstruction light on building 1510' from DER, 6' left of centerline, 43' AGL/4103' MSL. Trees starting 1651' from DER, 100' left of centerline, up to 53' AGL/4137' MSL. Building 2186' from DER, 173' left of centerline, 29' AGL/4119' MSL. Rising terrain starting 2549' from DER, 560' left of centerline, up to 4219' MSL. AG equip 4752' from DER, 517' left of centerline, 26' AGL/4175' MSL. Poles starting 600' from DER, 254' right of centerline, up to 48' AGL/4173' MSL. **Rwy 27,** fence starting 18' from DER, 440' left of centerline, up to 9' AGL/3969' MSL.

JOHN DAY, OR

GRANT COUNTY RGNL/OGILVIE FIELD (GCD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 09015 (FAA)

TAKEOFF MINIMUMS: **Rwys 9, 17, 35,** NA, Terrain.

DEPARTURE PROCEDURE: **Rwy 27,** climbing left turn to 12000 heading 270° and IMB R-100 to IMB VORTAC, climb in IMB VORTAC holding pattern (E, right turns, 280° inbound) to cross IMB VORTAC at or above MEA for route of flight.

NOTE: **Rwy 27,** fence beginning 195' from DER, 50' right of centerline, up to 16' AGL/3665' MSL. Trees beginning 229' from DER, 261' right of centerline, up to 26' AGL/3662' MSL. Bush 389' from DER, 438' right of centerline, 20' AGL/3659' MSL.

KALISPELL, MT

GLACIER PARK INTL (GPI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 06215 (FAA)

DEPARTURE PROCEDURE: Use SKOTT DEPARTURE.

KELSO, WA

SOUTHWEST WASHINGTON RGNL (KLS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 10098 (FAA)

TAKEOFF MINIMUMS: **Rwy 12,** NA, terrain. **Rwy 30,** std. with a min. climb of 370' per NM to 1900 or 1900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE:. **Rwy 30**, climb heading 303° to 1900 then climbing right turn to 3900 direct LSO NDB. Continue climb in LSO NDB holding pattern (North, right turns, 175° inbound) to cross LSO NDB at or above 3900, then via BTG R-310 to BTG VORTAC. For climb in visual conditions: cross Southwest Washington Rgnl at or above 1800, then via BTG R-309 to BTG VORTAC.

NOTE: **Rwy 30,** light pole 22' from DER, 301' right of centerline, 30' AGL/49' MSL. Windsock 235' from DER, 348' left of centerline, 30' AGL/49' MSL. Rotating beacon 502' from DER, 425' left of centerline, 50' AGL/70' MSL. Multiple trees beginning 213' from DER, 530' right to 747' left of centerline, up to 136' AGL/155' MSL. Pole 964' from DER, 44' right of centerline, 30' AGL/50' MSL.

KEMMERER, WY

KEMMERER MUNI (EMM)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 15008 (FAA)

TAKEOFF MINIMUMS: **Rwys 4, 10, 22, 28,** NA - Rwy surfaces.

DEPARTURE PROCEDURE: **Rwy 16,** climb heading 163° to 9100 then climbing left turn to intercept FBR VOR/DME R-330 to FBR VOR/DME before proceeding on course. **Rwy 34,** climb heading 343° to 8200 then climbing right turn on heading 135° and FBR VOR/DME R-345 to FBR VOR/DME before proceeding on course.

NOTE: **Rwy 16,** fence 17' from DER, 320' left of centerline, 8' AGL/7279' MSL. Fence 150' from DER, 250' right of centerline, 9' AGL/7286' MSL. **Rwy 34,** fence 73' from DER, 253' left of centerline, 7' AGL/7295' MSL.

KLAMATH FALLS, OR

KLAMATH FALLS (LMT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 10210 (FAA)

TAKEOFF MINIMUMS: **Rwy 7,** NA - Terrain. **Rwy 14,** std. w/ min. climb of 300' per NM to 7100, or 3100 - 3 for climb in visual conditions. **Rwy 25,** std. w/ min. climb of 400' per NM to 7100, or 3100 - 3 for climb in visual conditions. **Rwy 32,** std. w/ min. climb of 350' per NM to 7100, or 3100 - 3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14,** climb heading 141° to 6500 then climbing right turn to intercept LMT R-181 to LMT VORTAC, thence… or for climb in visual conditions: cross Klamath Falls airport at or above 7000 direct LMT VORTAC, thence… **Rwy 25,** climb heading 253° to 6000 then climbing right turn to intercept LMT R-306 to LMT VORTAC, thence ... or for climb in visual conditions: cross Klamath Falls airport at or above 7000 direct LMT VORTAC, thence… **Rwy 32,** climb heading 321° to 6700 then climbing left turn to intercept LMT R-277 to LMT VORTAC, thence ... or for climb in visual conditions: cross Klamath Falls airport at or above 7000 direct LMT VORTAC, thence…

…continue climb in LMT VORTAC holding pattern (West, Right Turns, 070° inbound) to cross LMT VORTAC at or above MEA for route of flight.

NOTE: **Rwy 14,** trees 3108' from DER, 1240' left of centerline, 100' AGL/4183' MSL. **Rwy 25,** terrain and trees beginning 597' from DER, 420' left of centerline, up to 100' AGL/4499' MSL. Vehicles on road and railroad beginning 254' from DER, 127' left of centerline, up to 23' AGL/4113' MSL. **Rwy 32,** multiple trees beginning 2625' from DER, 742' left of centerline, up to 100' AGL/4191' MSL.

LA GRANDE, OR

LA GRANDE/UNION COUNTY (LGD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 00195 (FAA)

TAKEOFF MINIMUMS: **Rwy 12**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 4500-3 or std. with a min. climb of 500' per NM to 7800. **Rwy 30,** Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 3600-3 or std. with a min. climb of 450' per NM to 6800. **Rwy 34,** 2900-3 or std. with a min. climb of 350' per NM to 6100. **Rwy 16,** 2000-3 or std. with a min. climb of 500' per NM to 5000.

DEPARTURE PROCEDURE: **Rwys 12**,**16,** climbing left turn direct LGD NDB, thence; **Rwys 30,34,** climbing right turn heading 010°, thence; **all aircraft** climb to 7000 via the 339° bearing from LGD NDB, then climbing right turn direct LGD NDB.

LAKEVIEW, OR

LAKE COUNTY (LKV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 13234 (FAA)

TAKEOFF MINIMUMS: **Rwy 17,** std. w/min. climb of 210' per NM to 6900, or 2600-3 for climb in visual conditions. **Rwy 35,** std. w/min. climb of 270' per NM to 7600, or 2600-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn heading 310° to intercept LKV VORTAC R-158 to LKV VORTAC. Do not exceed 240 KIAS until established on the LKV VORTAC R-158, or for climb in visual conditions, cross Lake County airport at or above 7200, then proceed on LKV VORTAC R-147 to LKV VORTAC. When executing VCOA, notify ATC prior to departure, thence…. **Rwy 35,** climb heading 351° to intercept LKV VORTAC R-130 to LKV VORTAC, or for climb in visual conditions, cross Lake County airport at or above 7200, then proceed on LKV VORTAC R-147 to LKV VORTAC. When executing VCOA, notify ATC prior to departure, thence….

... Continue climb in holding pattern (hold NW, right turns, 148° inbound) to cross LKV VORTAC at or above 9700.

NOTE: **Rwy 17,** runway end identifier lights beginning 35' from DER, left and right of centerline, up to 2' AGL/4726' MSL.

LARAMIE, WY

LARAMIE RGNL (LAR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 12096 (FAA)

DEPARTURE PROCEDURE: **Rwys 3, 12,21,30,** use LARAMIE DEPARTURE.

LAUREL, MT

LAUREL MUNI (6S8)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 13346 (FAA)

TAKEOFF MINIMUMS: **Rwys 9, 14, 27, 32,** NA.

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn direct BIL VORTAC, thence... **Rwy 22**, climbing left turn direct BIL VORTAC, thence…

...if required, continue climb in BIL VORTAC holding pattern (hold W, right turns, 072° inbound) to cross BIL VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 4**, ground beginning 47' from DER, 397' left of centerline, up to 3480' MSL. Multiple trees beginning 309' from DER, 260' right of centerline, up to 68' AGL/3522' MSL. Fence beginning 64' from DER, 281' left of centerline, up to 15' AGL/3469' MSL. **Rwy 22**, ground beginning 34' from DER, 264' right of centerline, up to 3498' MSL.

LEWISTON, ID

LEWISTON-NEZ PERCE COUNTY (LWS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3A 10182 (FAA)

DEPARTURE PROCEDURE: **Rwys 8,12, 26, 30**, turn left direct MQG VOR/DME. Continue climb in holding pattern (W, left turns, 066° inbound) to cross MQG VOR/DME at or above 3600.

LEWISTOWN, MT

LEWISTOWN MUNI (LWT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3A 11041 (FAA)

TAKEOFF MINIMUMS: **Rwy 3,** 1800-2 or std. with a min. climb of 280' per NM to 6900. **Rwys 8,13,** 900-2 or std. with a min. climb of 220' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 3,31** turn left. **Rwys 8,13,21**, turn right. **Rwy 26**, climb runway heading. **All aircraft** climb direct LWT VORTAC. Continue climb in holding pattern (W, right turns, 094° inbound) to MEA for route of flight.

LEXINGTON, OR

LEXINGTON (9S9)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 05020 (FAA)

TAKEOFF MINIMUMS: **Rwy 26,** std. with min. climb of 280' per NM to 7600, or 1600-2 ½ for climb in visual conditions. **Rwy 8,** std. with min. climb of 490' per NM to 4200, or 1600-2 ½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 8, 26,** for climb in visual conditions: cross Lexington Airport at or above 3600.

NOTES: **Rwy 8,** trees 1.42 NM from DER, 2386' left of centerline, 100' AGL/2159' MSL. Trees 1.48 NM from DER, 2755' left of centerline, 100' AGL/2179' MSL.

LIBBY, MT
LIBBY (S59)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 00223 (FAA)
TAKEOFF MINIMUMS: **Rwy 33,** not authorized. **Rwy 15,** use EYESE RNAV DEPARTURE.

LIVINGSTON, MT
MISSION FIELD (LVM)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 09071 (FAA)
TAKEOFF MINIMUMS: **Rwys 8, 13, 26, 31,** NA-Environmental.
DEPARTURE PROCEDURE: **Rwys 4, 22,** Use LIVINGSTON DEPARTURE.

MADRAS, OR
MADRAS MUNI (S33)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 10154 (FAA)
TAKEOFF MINIMUMS: **Rwys 16, 22,** std. with a min. climb of 298' per NM to 3900 or 1300-3 for climb in visual conditions
DEPARTURE PROCEDURE: **Rwys 4, 34,** climbing left turn heading 210°to intercept DSD R-348 to DSD VORTAC, thence… **Rwy 16,** climbing right turn heading 210°to intercept DSD R-348 to DSD VORTAC, thence… , or for climb in visual conditions: cross Madras Muni airport at or above 3600 MSL, then proceed on DSD R-356 to DSD VORTAC, thence… **Rwy 22,** climb heading 216°to intercept DSD R-348 to DSD VORTAC, thence ... , or for climb in visual conditions: cross Madras Muni airport at or above 3600 MSL, then proceed on DSD R-356 to DSD VORTAC, thence ...
…continue climb-in-hold (hold North, right turns, 168° inbound) to MEA/MCA for route of flight.
NOTES: **Rwy 4,** vehicle on road beginning 7' from DER,268' left of centerline, up to 15' AGL/2444' MSL. Airplane on tarmac 60' from DER, 252' right of centerline, 40'AGL/2469' MSL. Bush 383' from DER, 483' right of centerline, 19' AGL/2439' MSL. Vehicle on road 742' from DER, 112' right of centerline, up to 15' AGL/2447' MSL. **Rwy 16,** bushes beginning 196'from DER, 151' left of centerline, up to 14' AGL/2444'MSL. Airplane on tarmac 1357' from DER, 280' right of centerline 40' AGL/2479' MSL. **Rwy 34,** bushes beginning 92' from DER, 116' right of centerline, up to 17' AGL/2437' MSL. Airplane on tarmac 1396' from DER, 375' left of centerline, 40' AGL/2469' MSL.

MALTA, MT
MALTA (M75)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 11349 (FAA)
DEPARTURE PROCEDURE: **Rwy 26,** climb heading 257°to 3000 before turning right.
NOTE: **Rwy 8,** wind sock 37' from DER, 433' left of centerline, 12' AGL/2273' MSL. **Rwy 26,** vehicle on roadway 348' from DER, 507' left of centerline, 15' AGL/2265' MSL.

MC CALL, ID
MC CALL MUNI (MYL)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 11293 (FAA)
TAKEOFF MINIMUMS: **Rwy 34**, NA-Obstacles.
DEPARTURE PROCEDURE: **Rwy 16**, use PEPUC (RNAV) DEPARTURE.

MC CHORD FIELD (KTCM)
TACOMA, WA
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
10154
DEPARTURE PROCEDURE: **Rwy 16,** Track heading 160°, turn left to intercept SEA VORTAC R-168 (V495) to SEA 168/37.1 DME (ALDER). Cross ALDER at or above 4000. After ALDER, maintain MEA/MOCA for route of flight. **Rwy 34,** Track heading 340°, then turn right to intercept SEA VORTAC R-168 (V495) to SEA R-168/37.1 DME (ALDER). Cross ALDER at or above 4000. Maintain MEA/MOCA for route of flight.
TAKEOFF OBSTACLES: **Rwy 16,** Grove of trees 143' AGL/454' MSL, 4892' from DER, 1353' left of centerline. Grove of trees 102' AGL/419' MSL, 2395' from DER, 1028' right of centerline. Trees 136' AGL/447' MSL, 2867' from DER, 1261' left of centerline. Trees 120' AGL/430' MSL, 2594' from DER, 1113' left of centerline. Trees 85' AGL/394' MSL, 2310' from DER, 957' left of centerline. Trees 83' AGL/392' MSL, 2006' from DER, 959' left of centerline. Trees 87' AGL/389' MSL, 1758' from DER, 971' left of centerline. **Rwy 34,** Tree 106' AGL/348' MSL, 2307' from DER, 1038' left of centerline. Tree 121' AGL/370' MSL, 3190' from DER, 526' right of centerline. Aircraft 65' AGL/317' MSL, 186' from DER, 407' left of centerline. Tree 64' AGL/343' MSL, 2260' from DER, 1036' left of centerline. Building 40' AGL/321' MSL, 1668' from DER, 810' left of centerline.

MC MINNVILLE, OR

MC MINNVILLE MUNI (MMV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 08325 (FAA)

TAKEOFF MINIMUMS: **Rwy 4,** 400-1¼ or std. w/ min. climb of 238' per NM to 400, or alternatively, with standard TAKEOFF minimums and normal 200'/NM climb gradient, TAKEOFF must occur no later than 2000' prior to DER. **Rwy 17,** std. w/ min. climb of 300' per NM to 1200 or 1800-2½ for climb in visual conditions. **Rwy 22,** std. w/ min. climb of 303' per NM to 1400 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4,** climb heading 038°to intercept UBG R-170 to UBG VOR/DME, thence ...

Rwy 17,22, climbing left turn to intercept UBG R-183 to UBG VOR/DME, thence ... or for climb in visual conditions: cross Mc Minnville Muni at or above 1800 before proceeding on course. **Rwy 35,** climb heading 347°to intercept UBG R-221 to UBG VOR/DME, thence...

... continue climb in UBG VOR/DME holding pattern (S, left turns, 003°inbound) until reaching MEA for route of flight.

NOTE: **Rwy 4,** multiple trees beginning 2040' from DER, 353' left and 209' right of centerline, up to 100' AGL/339 feet MSL. **Rwy 17,** tree 1719' from DER, 456' right of centerline, 100' AGL/231' MSL. Tree 1760' from DER, 627' left of centerline, 100' AGL/257' MSL. **Rwy 22,** multiple trees beginning 282' from DER, 120' left and 144' right of centerline, up to 100' AGL/246' MSL. Tree 4047' from DER, 1319' left of centerline, 100' AGL/284' MSL. **Rwy 35,** multiple trees beginning 1551' from DER, 229' right of centerline, up to 100' AGL/277'MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 15064 (FAA)

Rwys 4,17,22,35, heading as assigned by ATC; requires minimum climb of 350' per NM to 4300.

MEDFORD, OR

ROGUE VALLEY INTL-MEDFORD (MFR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 10 13066 (FAA)

TAKEOFF MINIMUMS: **Rwy 14**, std. w/ min. climb of 435' per NM to 4500, or 2900-3 for climb in visual conditions. **Rwy 32,** std. w/ min. climb of 260' per NM to 6800, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14,** climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl-Medford airport at or above 4100 before proceeding direct OED VORTAC. When executing VCOA, notify ATC prior to departure. Thence …

Rwy 32, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl-Medford airport at or above 4100 before proceeding direct OED VORTAC. When executing VCOA, notify ATC prior to departure. Thence …

...all aircraft climb in OED VORTAC holding pattern (hold NW, right turns, 153°inbound) to cross OED VORTAC at or above MEA or MCA for direction of flight.

MILES CITY, MT

FRANK WILEY FIELD (MLS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 11349 (FAA)

NOTE: **Rwy 4,** REIL 40' from DER, 112' left of centerline, 1' AGL/2627' MSL. REIL 40' from DER, 115' right of centerline, 2' AGL/2628' MSL. Fence 130' from DER, 400' left of centerline, up to 8' AGL/2629' MSL. **Rwy 12,** fence 215' from DER, left and right of centerline, up to 8' AGL/2634' MSL. **Rwy 22,** fence beginning 4' from DER, left and right of centerline, up to 8' AGL/2638' MSL. REIL 10' from DER, 112' left of centerline, 1' AGL/2630' MSL. REIL 10' from DER, 115' right of centerline, 2' AGL/2631' MSL. Sign 29' from DER, 199' left of centerline, 6' AGL/2630' MSL. Terrain 30' from DER, 482' left of centerline, 2630' MSL. **Rwy 30,** trees beginning 69' from DER, left and right of centerline, up to 26' AGL/2647' MSL.

MISSOULA, MT

MISSOULA INTL (MSO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 8 08213 (FAA)

TAKEOFF MINIMUMS: **Rwys 7,25**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwys 11, 29,** use GRZLY DEPARTURE.

MOSES LAKE, WA

GRANT COUNTY INTL (MWH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 12264 (FAA)

NOTE: **Rwy 14R,** antenna 3902' from DER, 828' right of centerline, 98' AGL/1268' MSL. **Rwy 18,** pole 405' from DER, 334' right of centerline, 30' AGL/1209' MSL. Windsock 496' from DER, 371' left of centerline, 16' AGL/1195' MSL. **Rwy 32L,** antenna 660' from DER, 401' left of centerline, 11' AGL/1191' MSL. Pole 1317' from DER, 369' left of centerline, 22' AGL/1202' MSL.

MOUNTAIN HOME AFB (KMUO)

MOUNTAIN HOME, ID

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 12096

Rwy 12, 30, 6700-3*

* Or standard with minimum climb of 270/NM to 9100.

TAKEOFF OBSTACLES: **Rwy 12,** Terrain 0' AGL/3035' MSL, 824' from DER, 721' right of centerline. Terrain 0' AGL/3035' MSL, 848' from DER, 686' right of centerline. Terrain 0' AGL/3032' MSL, 378' from DER, 600' right of centerline. Road/Vehicle 15' AGL/3024' MSL, 1144' from DER, 793' right of centerline. Power pole 35' AGL/3049' MSL, 2911' from DER, 939' right of centerline. Tower 30' AGL/3030' MSL, 1064' from DER, 901' right of centerline. Tower 28' AGL/3037' MSL, 1168' from DER, 795' right of centerline. Tower 45' AGL/3049' MSL, 2148' from DER, 1479' left of centerline. **Rwy 30,** Terrain 0' AGL/2995' MSL, 16' from DER, 500' left of centerline. Terrain 0' AGL/2995' MSL, 81' from DER, 500' left of centerline. Terrain 0' AGL/2995' MSL, 296' from DER, 579' left of centerline. Terrain 0' AGL/2995' MSL, 427' from DER, 614' left of centerline. Terrain 0' AGL/2995' MSL, 445' from DER, 619' left of centerline. Terrain 0' AGL/2998' MSL, 253' from DER, 568' right of centerline. Terrain 0' AGL/3000' MSL, 378' from DER, 500' right of centerline. Terrain 0' AGL/3007' MSL, 570' from DER, 653' right of centerline. Terrain 0' AGL/3002' MSL, 737' from DER, 525' right of centerline. Road/Vehicle 35' AGL/3018' MSL, 949' from DER, 772' left of centerline.

MOUNTAIN HOME, ID

MOUNTAIN HOME MUNI (U76)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4A 14093 (FAA)

TAKEOFF MINIMUMS: **Rwy 10,** 3500-2 or std. with a min. climb of 305' per NM to 7300. **Rwy 28,** 3500-2 or std. with a min. climb of 290' per NM to 7300.

DEPARTURE PROCEDURE: **Rwy 10,** climbing left turn direct STI NDB. **Rwy 28,** climbing right turn direct STI NDB. **All aircraft** departing STI NDB 084° CW 344° climb on course. All others climb in hold (hold E, left turns, 275° inbound) to cross STI NDB at or above 7300.

NOTE: **Rwy 10,** transmission line towers beginning 1307' from DER, 125' left of centerline, up to 52' AGL/3198' MSL. Vegetation 24' from DER, 282' left of centerline, 4' AGL/3160' MSL. Tower 3249' from DER, 890' right of centerline, 126' AGL/3273' MSL. Building 575' from DER, 602' right of centerline, 41' AGL/3197' MSL. **Rwy 28,** railroad 1038' from DER, 322' right of centerline, 23' AGL/3193' MSL.

NAMPA, ID

NAMPA MUNI (MAN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 97170 (FAA)

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course. **Rwy 29,** climb runway heading to 3700 then climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

NOTE: **Rwy 11,** 70' AGL tree, 1225' from DER, 90' right of centerline.

NEWCASTLE, WY

MONDELL FIELD (ECS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 14233 (FAA)

TAKEOFF MINIMUMS: **Rwy 32,** 200-1½ or std. w/min. climb of 265' per NM to 4500.

DEPARTURE PROCEDURE: **Rwy 14,** climb heading 136° and ECS VOR R-143, until reaching 5500, thence…

Rwy 32, climbing left turn direct ECS VOR, then on ECS VOR R-143 to 5500, thence...

...Climbing right turn to 7500 direct ECS VOR, continue climb-in-holding to 7500 (hold SE, left turns, 323° inbound) before proceeding on course.

NOTE: **Rwy 14,** obstruction light on antenna 1442' from DER, 880' left of centerline, 93' AGL/4244' MSL. Terrain 2826' from DER, 1242' right of centerline 4292' MSL. **Rwy 32,** ground beginning 59' from DER, 393' right of centerline up to 4182' MSL. Railroad 212' from DER, 284' right of centerline up to 23' AGL/4205' MSL. Fence 247' from DER, 314' right of centerline 12' AGL/4175' MSL. Multiple poles beginning 294' from DER 236' right of centerline up to 26' AGL/4203' MSL. Transmission line tower 294' from DER, 436' right of centerline 26' AGL/4203' MSL. Road beginning 426' from DER, 238' right of course up to 15' AGL/4194' MSL. Ground beginning 5148' from DER, 1085' right of centerline 4366' MSL. Bush 6286' from DER, 1440' right of centerline 11' AGL/4363' MSL. Road beginning 426' from DER, 238' right of centerline, up to 15' AGL/4195' MSL.

NEWPORT,OR

NEWPORT MUNI (ONP)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 14149 (FAA)

TAKEOFF MINIMUMS: **Rwy 2**, NA-Obstacles. **Rwy 16**, 500-3 or std. w/min. climb of 310' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 16,** turn right. **Rwy 34**, turn left.

All Aircraft departing via ONP R-180 CW R-320 depart on course. All others continue climbing via ONP R-200 to 1500 then climbing left turn direct ONP VORTAC. Cross ONP VORTAC at or above 2200.

NOTE: **Rwy 16,** trees beginning 15' from DER, 326' left of centerline, up to 51' AGL/171' MSL. Trees beginning 82' from DER, 372' left of centerline, up to 93' AGL/213' MSL. Trees, buildings, and poles beginning 137' from DER, 261' right of centerline, up to 53' AGL/173' MSL. Trees beginning 158' from DER, 87' left of centerline, up to 133' AGL/222' MSL. Trees beginning 783' from DER, 370' right of centerline, up to 118' AGL/238' MSL. Trees beginning 1253' from DER, 236' left of centerline, up to 122' AGL/279' MSL. Trees beginning 1262' from DER, 706' right of centerline, up to 133' AGL/253' MSL. Trees beginning 1476' from DER, 721' left of centerline, up to 179' AGL/299' MSL. Tree 1581' from DER, 66' right of centerline, 119' AGL/239' MSL. Trees beginning 1786' from DER, 109' right of centerline, up to 180' AGL/282' MSL. Trees beginning 2000' from DER, left and right of centerline, up to 300' AGL/459' MSL. Trees beginning 2378' from DER, 41' left of centerline, up to 150' AGL/246' MSL. Trees beginning 3840' from DER, 434' left of centerline, up to 142' AGL/262' MSL. Tower and trees beginning 1.2 NM from DER, 1398' left of centerline, up to 165' AGL/422' MSL. Trees beginning 1.5 NM from DER, 2247' left of centerline, up to 146' AGL/417' MSL. Trees beginning 1.7 NM from DER, 3260' left of centerline, up to 145' AGL/465' MSL. Trees beginning 2.1 NM from DER, 3464' left of centerline, up to 125' AGL/575' MSL. **Rwy 20,** generator 5' from DER, 80' left of centerline, 2' AGL/132' MSL. Buildings beginning 312' from DER, 564' right of centerline, up to 39' AGL/159' MSL. Tree 449' from DER, 494' right of centerline, 43' AGL/163' MSL. Bushes beginning 700' from DER, 491' left of centerline, up to 33' AGL/153' MSL. Trees beginning 2822' from DER, 1160' left of centerline, up to 103' AGL/223' MSL. **Rwy 34,** tree 212' from DER, 408' left of centerline, 47' AGL/167' MSL. Tree 319' from DER, 524' left of centerline, 55' AGL/175' MSL. Tree 546' from DER, 242' left of centerline, 55' AGL/175' MSL. Tree 965' from DER, 638' left of centerline, 109' AGL/189' MSL. Tree 1212' from DER, 356' left of centerline, 106' AGL/186' MSL. Trees beginning 1420' from DER, 571' left of centerline, up to 122' AGL/202' MSL. Tree 1487' from DER, 186' right of centerline, 89' AGL/209' MSL. Trees beginning 1907' from DER, 874' right of centerline, up to 87' AGL/234' MSL. Trees beginning 2419' from DER, 1120' right of centerline, up to 121' AGL/241' MSL.

NORTH BEND, OR

SOUTHWEST OREGON RGNL (OTH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 15176 (FAA)

TAKEOFF MINIMUMS: **Rwy 4,** 900-3 w/min. climb of 300' per NM to 1500 or std. w/min. climb of 475' per NM to 1200 or 1600-2½ for VCOA. **Rwy 13,** 400 -2½ w/min. climb of 250' per NM to 2500 or 1600-2½ for VCOA. **Rwy 31,** 300-1¾ or std. w/ min. climb of 280' per NM to 300.

DEPARTURE PROCEDURE: **Rwy 4,** Climb heading 046°to intercept OTH VOR/DME R-340 northwest bound to 1800 before proceeding on course. **Rwy 13,** climb heading 135°to 1300 before proceeding on course. **Rwy 22,** Climb heading 226°to 700 before proceeding on course. **Rwy 31,** Climb heading 315°to 800 before proceeding on course.

VISUAL CLIMB: **Rwy 4, 13,** obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Southwest Oregon Rgnl airport at or above 1500 before proceeding on course.

NOTE: **Rwy 4,** ol on ant 383' from DER, 207' right of centerline, 22' AGL/35' MSL. Ship 1000' from DER, on centerline, up to 140' MSL. Ol on bridge 1886' from DER, 629' left of centerline, 89' AGL/93' MSL. transmission towers beginning 4259' from DER, 677' right of centerline, up to 215' AGL/228' MSL. Bridge beginning 4741' from DER, 580' right of centerline, up to 265' AGL/268' MSL. Trees beginning 1.2 NM from DER, 34 ' left of centerline, up to 150' AGL/660' MSL. Trees beginning 1.6 NM from DER, 897' right of centerline, up to 147' AGL/767' MSL. Buildings beginning 1.6 NM from DER, 776' left of centerline, up to 73' AGL/393' MSL. **Rwy 13**, bushes beginning 38' from DER, 175' left of centerline, up to 18' AGL/33' MSL. Vehicle on road, 193' from DER, 237' left of centerline, up to 15' AGL/30' MSL. Bush 193' from DER, 145' right of centerline, up to 20' AGL/37' MSL. Trees beginning 346' from DER, 49' right of centerline, up to 62' AGL/76' MSL. Buildings beginning 504' from DER, 211' right of centerline, up to 65' AGL/106' MSL. Tree 628' from DER, 52' left of centerline, 24' AGL/38' MSL. Poles beginning 880' from DER, 14' right of centerline, up to 77' AGL/114' MSL. Trees beginning 2537' from DER, left and right of centerline, up to 150' AGL/349' MSL. Spire 3467' from DER, 1122' left of centerline, 55' AGL/243' MSL. Poles beginning 1 NM from DER, left and right of centerline, up to 140' AGL/247' MSL. **Rwy 22,** ship 4050' from DER, on centerline, up to 140' MSL. **Rwy 31,** ship 1000' from DER, on centerline, up to 140' MSL. Trees beginning 5037' from DER, 15' left of centerline, up to 82' AGL/232' MSL. Trees beginning 5985' from DER, 1419' right of centerline, up to 108' AGL/188' MSL.

OAK HARBOR, WA

A J EISENBERG (OKH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 09071 (FAA)

TAKEOFF MINIMUMS: **Rwy 7,** 300-1. **Rwy 25,** 300-1

DEPARTURE PROCEDURE: **Rwy 7,** climb via heading 071°to 2000, then climbing right turn direct CVV VOR/DME. Continue climb on course. **Rwy 25,** climb via heading 251°to 2100, then climbing left turn direct CVV VOR/DME. Continue climb on course.

NOTE: **Rwy 7,** multiple trees beginning 1167' from DER, 212' left of centerline, up to 80' AGL/319' MSL. Multiple trees beginning 664' from DER, 208' right of centerline, up to 80' AGL/299' MSL. Fence 612' from DER, right and left of centerline, 10' AGL/229' MSL. Multiple bushes beginning 240' from DER, 64' left of centerline, up to 8' AGL/227' MSL. **Rwy 25,** cars on road 87' from DER, left and right of centerline, up to 15' AGL/174' MSL. Multiple trees beginning 2271' from DER, right and left of centerline, up to 80' AGL/279' MSL.

OLYMPIA, WA

OLYMPIA RGNL (OLM)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5A 09127 (FAA)

TAKEOFF MINIMUMS: **Rwy 17**, 300-2 or std. with a min. climb of 706' per NM to 600, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8,** climb heading 085° to 1000 then climbing left turn direct OLM VORTAC, thence. . .**Rwy 17,** climb heading 172°to 1200 then climbing right turn direct OLM VORTAC, thence. . .or climb in visual conditions to cross OLM VORTAC at or above 2300, thence. . . **Rwy s 26,35,** climbing right turn direct OLM VORTAC, thence. . .

. . .continue climb in OLM VORTAC holding pattern (south, right turn, 356°inbound) to cross OLM VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8,** multiple trees beginning 880' from DER, 214' left of centerline, up to 100' AGL/343' MSL. Multiple trees beginning 1636' from DER, 131' right of centerline, up to 100' AGL/320' MSL. **Rwy 17,** multiple trees beginning 1008' from DER, 24' left of centerline, up to 100' AGL/490' MSL. Multiple trees beginning 752' from DER, 3' right of centerline, up to 100' AGL/370' MSL. **Rwy 26,** multiple trees and WSK on building beginning 475' from DER, 595' left of centerline, up to 100' AGL/330' MSL. Multiple trees beginning 338' from DER, 339' right of centerline, up to 100' AGL/309' MSL. **Rwy 35,** multiple trees beginning 2176' from DER, 198' left of centerline, up to 100' AGL/313' MSL. Multiple trees and field light on hangar beginning 657' from DER, 621' right of centerline, up to 100' AGL/315' MSL.

OMAK, WA

OMAK (OMK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 14037 (FAA)

TAKEOFF MINIMUMS: **Rwy 35,** NA - obstacles.

DEPARTURE PROCEDURE: **Rwy 17,** use GETNG DEPARTURE.

ONTARIO, OR

ONTARIO MUNI (ONO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 11041 (FAA)

TAKEOFF MINIMUMS: **Rwy 32,** 300-2 or std. w/ min. climb of 235' per NM to 2600, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 2200' prior to DER, or 1400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 32,** climb on a heading between 014°CW to 141°from DER, or minimum climb of 285' per NM to 9800 for all other courses, for climb in visual conditions cross Ontario Muni Airport at or above 3400 before proceeding on course.

NOTE: **Rwy 14,** multiple trees, poles, terrain, and buildings beginning 32' from DER, 40' right of centerline, up to 120' AGL/2216' MSL. Multiple trees, poles, fence, and buildings beginning 19' from DER, 30' left of centerline, up to 120' AGL/2263' MSL.

Rwy 32, multiple trees, poles, and buildings beginning 340' from DER, 309' left of centerline, up to 100' AGL/2458' MSL. Multiple trees, poles, and buildings 2' from DER, 190' right of centerline, up to 100' AGL/2431' MSL.

PASCO, WA

TRI-CITIES (PSC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 8 14317 (FAA)

DEPARTURE PROCEDURE: **Rwy 30,** climb heading 301° to 1400, thence … **Rwy 12,** climb heading 121°to 1500, thence … **Rwys 3L, 3R,** climb heading 031°to 1500, thence … **Rwys 21L, 21R,** climb heading 211°to 1700, thence …

... Rwy 12 turn left, all others turn right. Then climb direct PSC VOR/DME, climb in PSC VOR/DME holding pattern (hold East, right turns, 272°inbound) to MEA/MCA for route of flight before proceeding on course.

NOTE: **Rwy 3L,** bush 94' from DER, 479' left of centerline, up to 5' AGL/405' MSL. Trains beginning 1680' from DER, crossing centerline, up to 23' AGL/447' MSL. Tower 2447' from DER, 910' right of centerline, up to 56' AGL/479' MSL. Electrical system 2466' from DER, 94' right of centerline, up to 45' AGL/464' MSL. Tower 2501' from DER, 1076' right of centerline, up to 64' AGL/480' MSL. **Rwy 3R,** terrain 172' from DER, 229' right of centerline, up to 408' MSL. Bushes beginning 255' from DER, 204' right of centerline, up to 5' AGL/413' MSL. Fence beginning 851' from DER, crossing centerline, up to 8' AGL/427' MSL. Bushes 970' from DER, 48' right of centerline, 5' AGL/430' MSL. Towers 1431' from DER, 603' right of centerline, up to 50' AGL/473' MSL. Rod on tower 1512' from DER, 883' right of centerline, up to 109' AGL/528' MSL. Rod on tower 2271' from DER, 845' right of centerline, up to 107' AGL/526' MSL. Tower 2460' from DER, 111' right of centerline, up to 56' AGL/479' MSL. Tower 2514' from DER, 277' right of centerline, up to 64' AGL/480' MSL. Trees 2580' from DER, 871' right of centerline, up to 75' AGL/504' MSL. **Rwy 12,** vehicles on road beginning 407' from DER, crossing centerline, up to 15' AGL/424' MSL. Trees 657' from DER, 618' right of centerline, up to 75' AGL/454' MSL. Pole 947' from DER, 635' left of centerline, 25' AGL/434' MSL. Pole 1092' from DER, 588' left of centerline, 25' AGL/442' MSL. Trees beginning 1195' from DER, 602' right of centerline, up to 61' AGL/461' MSL. Trees beginning 2989' from DER, 620' left of centerline, up to 75' AGL/484' MSL. **Rwy 30,** terrain 3750' from DER, 887' left of centerline, up to 496' MSL. **Rwy 21R,** trees beginning 918' from DER, 468' right of centerline, up to 75' AGL/484' MSL. **Rwy 21L,** aircraft 15' from DER, 458' left of centerline to 689' right of centerline, up to 45' AGL/454' MSL.

PENDLETON, OR

EASTERN OREGON RGNL AT PENDLETON (PDT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 14317 (FAA)

DEPARTURE PROCEDURE: **Rwys 7, 29,** climbing left turn direct PDT VORTAC, thence...

Rwy 11, climbing right turn direct PDT VORTAC, thence...

Rwy 25, climb direct PDT VORTAC, thence...

...continue climb in PDT VORTAC holding pattern (hold West, left turns, 073°inbound) to cross PDT VORTAC at or above MEA before proceeding on course.

NOTE: **Rwy 25,** antenna on building 858' from DER, 259' left of centerline, 13' AGL/1509' MSL. Terrain beginning 203' from DER, 451' left of centerline, up to 1505' MSL. **Rwy 29,** terrain beginning 189' from DER, 247' left of centerline, 1493' MSL.

PINEDALE, WY

PINEDALE/RALPH WENZ FIELD (PNA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 09295 (FAA)

TAKEOFF MINIMUMS: **Rwy 29,** std. with a min. climb of 310' per NM to 8300, or 4900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 11,** climbing right turn to 10000 via heading 190° and BPI R-040 to BPI VOR/DME before proceeding on course. **Rwy 29,** climbing left turn to 10000 via heading 230° and BPI R-020 to BPI VOR/DME before proceeding on course or for climb in visual conditions: cross Pinedale/Ralph Wenz Field at or above 11800 before proceeding on course.

PLENTYWOOD, MT

SHER-WOOD (PWD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 07074 (FAA)

NOTE: **Rwy 12,** multiple bushes beginning 47' from DER, 71' left of centerline, up to 12' AGL/2251' MSL. Multiple bushes beginning 362' from DER, 514' right of centerline, up to 12' AGL/ 2251' MSL. **Rwy 30,** multiple bushes and road beginning 68' from DER, 75' right of centerline, up to 12' AGL/2303' MSL. Multiple bushes beginning 217' from DER, 60' left of centerline, up to 12' AGL/2296' MSL.

POCATELLO, ID

POCATELLO RGNL (PIH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 7 09351 (FAA)

DEPARTURE PROCEDURE: use KNURL ONE DEPARTURE.

POLSON, MT

POLSON (8S1)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 14065 (FAA)

TAKEOFF MINIMUMS: **Rwy 18,** NA - Obstacles.

DEPARTURE PROCEDURE: **Rwy 36,** use ANGIL DEPARTURE.

POPLAR, MT

POPLAR MUNI (PO1)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 13010 (FAA)

TAKEOFF MINIMUMS: **Rwys 2,20** NA - ATC.

NOTE: **Rwy 9,** light support structure 10' from DER, 18' right of centerline, 2' AGL/2038' MSL. Fence 24' from DER, 344' left of centerline, 10' AGL/2046' MSL. Terrain 26' from DER, 492' left of centerline, 2037' MSL. Tree 504' from DER, 483' left of centerline, 40' AGL/2080' MSL. Pole 1175' from DER, 756' right of centerline, 31' AGL/2067' MSL. Pole 1233' from DER, 619' left of centerline, 32' AGL/2068' MSL. Pole 1423' from DER, 618' right of centerline, 38' AGL/2074' MSL. Pole 1742' from DER, 593' right of centerline, 45' AGL/2081' MSL. **Rwy 27,** light support structure 10' from DER, 17' left of centerline, 2' AGL/2027' MSL. Fence 65' from DER, 341' right of centerline, 4' AGL/2029' MSL. Tree 248' from DER, 497' right of centerline, 21' AGL/2047' MSL.

PORT ANGELES, WA

PORT ANGELES CGAS (NOW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4A 15008 (FAA)

DEPARTURE PROCEDURE: **Rwy 8,** climbing left turn heading 010° to intercept CVV VOR/DME R-247 to 5400 ... **Rwy 26,** climbing right turn heading 010° to intercept CVV VOR/DME R-247 to 5400 ...

... All aircraft proceed on CVV R-247 to JIGEB INT/CVV 12.1 DME; cross JIGEB at or above MEA/MCA for route of flight.

NOTE: **Rwy 8,** ships on waterway 1792' from DER, across centerline, up to 80' MSL. **Rwy 26,** vehicles on roadway beginning 309' from DER, across centerline, up to 15' AGL/24' MSL. Ships on waterway 590' from DER, 316' left of centerline, 80' MSL. Ships on waterway 632' from DER, 350' right of centerline, 80' MSL.

WILLIAM R FAIRCHILD INTL (CLM)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 16035 (FAA)

DEPARTURE PROCEDURE: Use WATTR DEPARTURE.

04 FEB 2016 to 03 MAR 2016
04 FEB 2016 to 03 MAR 2016

PORTLAND, OR

PORTLAND INTL (PDX)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 8 12264 (FAA)

TAKEOFF MINIMUMS: **Rwy 3,** 500-3 or std. w/ min. climb of 355' per NM to 700. **Rwy 10L,** std. w/ min. climb of 280' per NM to 2900. **Rwy 10R,** std. w/ min. climb of 265' per NM to 2900. **Rwy 21,** std. w/ min. climb of 290' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 3,** climb heading 029° to 700, then climbing left turn direct BTG VORTAC, thence ...

Rwys 10L,10R, climb heading 103° to 500, then climbing left turn direct BTG VORTAC, thence …

Rwy 21, climb heading 209° to 500, then climbing right turn direct BTG VORTAC, thence ...

Rwys 28L, 28R, climb heading 283° to 500, then climbing right turn direct BTG VORTAC, thence ...

... continue climb in BTG VORTAC holding pattern (hold NW, right turns, 149° inbound) to cross BTG VORTAC at or above MCA/MEA before proceeding on course.

NOTE: **Rwy 3,** sign 1' from DER, 133' left of centerline, 5' AGL/28' MSL. Vehicle on road 1363' from DER, 795' left of centerline, 15' AGL/76' MSL. Vehicle on road 1675' from DER, 5' right of centerline, 15' AGL/76' MSL. Multiple trees, towers beginning 1.2 NM from DER, 278' left of centerline, up to 85' AGL/463' MSL. Multiple trees, building, electrical system and pole beginning 1.3 NM from DER, 63' right of centerline, up to 85' AGL/430' MSL. Tree 1.7 NM from DER, 8' right of centerline, 85' AGL/413' MSL. **Rwy 10L,** vehicles on road beginning abeam DER, 376' left of centerline, up to 15' AGL/78' MSL. Trees beginning 1201' from DER, 753' right of centerline, up to 75' AGL/95' MSL. **Rwy 10R**, pole 1996' from DER, 759' right of centerline, 54' AGL/74' MSL. **Rwy 21,** light on DME 354' from DER, 255' left of centerline, 23' AGL/37' MSL. Multiple trees, poles, tower beginning 1327' from DER, 23' left of centerline, up to 93' AGL/328 MSL. Multiple trees, poles beginning 1098' from DER, 42' right of centerline up to 75' AGL/329' MSL. Trees beginning 2229' from DER, on centerline, up to 75' AGL/190' MSL. **Rwy 28L,** trees 1873' from DER, 837' left of centerline, up to 75' AGL/95' MSL. **Rwy 28R,** building, antennas, vehicles on road beginning 130' from DER, 257' right of centerline, up to 27' AGL/58' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 15092 (FAA)

Rwy 3, heading as assigned by ATC; requires minimum climb of 360' per NM to 4500. **Rwy 10L,** heading as assigned by ATC; requires minimum climb of 350' per NM to 4700. **Rwy 10R,** heading as assigned by ATC; requires minimum climb of 400' per NM to 3600. **Rwy 21,** heading as assigned by ATC; requires minimum climb of 430' per NM to 3000. **Rwy 28L,** heading as assigned by ATC; requires minimum climb of 370' per NM to 3800. **Rwy 28R,** heading as assigned by ATC; requires minimum climb of 340' per NM to 4500.

PORTLAND, OR (CON'T)

PORTLAND-HILLSBORO (HIO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 7 15120 (FAA)

TAKEOFF MINIMUMS**:** **Rwy 2,** std. w/min. climb of 215' per NM to 1900 or 600-2½ for climb in visual conditions. **Rwy 13R,** 200-1¼ or std. w/min. climb of 233' per NM to 400 or alternatively, with standard takeoff Minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1800' prior to DER. **Rwy 31L,** std. w/min. climb of 240' per NM to 2700 or 600-2½ for climb in visual conditions. **Rwy 31R,** std. w/min. climb of 230' per NM to 2700 or 600-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L, 13R,** Climbing right turn direct UBG VOR/DME thence… **Rwys 2, 20, 31L, 31R**, Climbing left turn direct UBG VOR/DME thence… …continue climb in UBG VOR/DME holding pattern (hold west, right turns, 108° inbound) to cross UBG VOR/DME at or above MEA for direction of flight before proceeding on course.

VCOA: **Rwys 2, 31L, 31R:** obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Portland-Hillsboro airport at or above 700 then proceed direct UBG VOR/DME… …continue climb in UBG VOR/DME holding pattern (hold west, right turns, 108° inbound) to cross UBG VOR/DME at or above MEA for direction of flight before proceeding on course.

NOTE: **Rwy 2,** fence 34' from DER, 498' left of centerline, 4' AGL/212' MSL. Fence 70' from DER, 378' right of centerline, 8' AGL/214' MSL. Fence 163' from DER, 332' left of centerline, 11' AGL/219' MSL. Vehicles on road beginning 246' from DER, 253' right of centerline, up to 15' AGL/220' MSL. Tree 1793' from DER, 609' right of centerline, 70' AGL/270' MSL. Tank and buildings beginning 2423' from DER, 797' left of centerline, up to 67' AGL/279' MSL. **Rwy 13L,** sign 60' from DER, 202' left of centerline, 2' AGL/208' MSL. Trees beginning 2518' from DER, 295' left of centerline, up to 30' AGL/302' MSL. Trees beginning 2718' from DER, 270' left of centerline, up to 40' AGL/329' MSL. Trees beginning 3034' from DER, 259' left of centerline, up to 70' AGL/342' MSL. Tower 4794' from DER, 780' left of centerline, 160' AGL/350' MSL. **Rwy 13R,** pole 38' from DER, 149' left of centerline, 4' AGL/200' MSL. Sign 72' from DER, 299' right of centerline, 5' AGL/201' MSL. Tree 1030' from DER, 754' right of centerline, 60' AGL/260' MSL. Tree 1103' from DER, 613' left of centerline, 60' AGL/234' MSL. Trees beginning 1835' from DER, 609' right of centerline, up to 60' AGL/307' MSL. Trees beginning 3101' from DER, 9' right of centerline, up to 150' AGL/344' MSL. Trees beginning 5097' from DER, 582' right of centerline, up to 160' AGL/357' MSL. **Rwy 20,** poles, lights, fence beginning 14' from DER, 455' right of centerline, up to 29' AGL/232' MSL. Pole, tree, hangars beginning 215' from DER, 497' left of centerline, up to 34' AGL/236' MSL. Trees beginning 767' from DER, 625' left of centerline, up to 90' AGL/290' MSL. Trees and poles beginning 1140' from DER, 454' left of centerline, up to 90' AGL/294' MSL. Trees beginning 2232' from DER, 31' left of centerline, up to 100' AGL/311' MSL. Tree 4822' from DER, 337' left of centerline, 130' AGL/327' MSL. **Rwy 31L,** trees beginning 1664' from DER, 795' right of centerline, up to 80' AGL/271' MSL. Trees beginning 5874' from DER, 583' right of centerline, up to 200' AGL/380' MSL. **Rwy 31R,** sign 19' from DER, 162' right of centerline, 5' AGL/202' MSL. Bush 116' from DER, 193' left of centerline, 5' AGL/205' MSL. Trees, pole, tower beginning 1258' from DER, 138' right of centerline, up to 75' AGL/272' MSL. Trees beginning 1 NM from DER, 433' right of centerline, up to 200' AGL/380' MSL.

PORTLAND, OR (CON'T)

PORTLAND-HILLSBORO (HIO)

DIVERSE VECTOR AREA (RADAR VECTORS)
ORIG 15120 (FAA)

Rwy 2, heading as assigned by ATC; requires minimum climb of 290' per NM to 2700. **Rwy 13L,** heading as assigned by ATC; requires minimum climb of 290' per NM to 2800. **Rwy 13R,** heading as assigned by ATC; requires minimum climb of 300' per NM to 2800. **Rwy 20,** heading as assigned by ATC; requires minimum climb of 260' per NM to 4900. **Rwy 31L,** heading as assigned by ATC; requires minimum climb of 270' per NM to 4900. **Rwy 31R,** heading as assigned by ATC; requires minimum climb of 260' per NM to 4900.

PORTLAND-TROUTDALE (TTD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 6 88350 (FAA)

TAKEOFF MINIMUMS: **Rwy 7,** 3600-2 or std. with a min. climb of 380' per NM to 4100. **Rwy 25**, 900-2 or std. with a min. climb of 360' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 7**, turn left.
Rwy 25, turn right. **All aircraft** climb via BTG R-125 direct BTG VORTAC. Continue climb on BTG R-329 within 10 NM to cross BTG VORTAC at or above: BTG R-355 CW R-055 or R-085 CW R-115 5000; all others 2500.

DIVERSE VECTOR AREA (RADAR VECTORS)
ORIG 15092 (FAA)

Rwy 7, heading as assigned by ATC; requires minimum climb of 330' per NM to 2900. **Rwy 25,** heading as assigned by ATC; requires minimum climb of 360' per NM to 4300.

PORT TOWNSEND, WA

JEFFERSON COUNTY INTL (0S9)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 13234 (FAA)

TAKEOFF MINIMUMS: **Rwy 9,** 300-1 **Rwy 27,** 300-1 with a min. climb of 445' per NM to 900, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 9,** climb on heading 088°to intercept CVV VOR/DME R-166 to CVV VOR/DME, thence …
Rwy 27, climbing right turn heading 090°to intercept CVV VOR/DME R-166 to CVV VOR/DME, or for climb in visual conditions cross Jefferson County Intl airport at or above 1000 then climb on CVV R-178 to CVV VOR/DME. When executing VCOA, notify ATC prior to departure. Thence…
... Climb in holding pattern (hold South, left turns, 346° inbound) to cross CVV VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 9,** bushes beginning 21' from DER, left and right of centerline, up to 5' AGL/123' MSL. Terrain beginning 148' from DER, 313' right of centerline, up to 126' MSL. Trees beginning 661' from DER, left and right of centerline, up to 90' AGL/284' MSL. **Rwy 27,** trees beginning 105' from DER, left and right of centerline, up to 90' AGL/260' MSL. Poles beginning 105' from DER, 298' left of centerline, up to 53' AGL/159' MSL.

POWELL, WY

POWELL MUNI (POY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 13262 (FAA)

TAKEOFF MINIMUMS: **Rwys 3,17,21,35,** NA-Environmental.

DEPARTURE PROCEDURE: **Rwy 13,** turn right, thence…
Rwy 31, turn left, thence…
... All aircraft climb direct COD VOR/DME. Continue climb in COD VOR/DME holding pattern (hold North, left turns, 189°inbound) to cross COD VOR/DME at or above 9400 before proceeding on course.

NOTE: **Rwy 13,** pole 13' from DER, 288' right of centerline, 8' AGL/5107' MSL. Windsock 13' from DER, 287' right of centerline, 5' AGL/5104' MSL. Pole 110' from DER, 407' right of centerline, 4' AGL/5104' MSL. Terrain 148' from DER, 526' left of centerline; 0' AGL/5100' MSL. Vehicles on road beginning 414' from DER, beginning 53' right of centerline, up to 15' AGL/5115' MSL. Terrain 674' from DER, 429' right of centerline, 0' AGL/5119' MSL . **Rwy 31,** windsock 9' from DER, 297' right of centerline, 3' AGL/5002' MSL. Pole 10' from DER, 296' right of centerline, 6' AGL/5005' MSL.

PRINEVILLE, OR

PRINEVILLE (S39)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 13346 (FAA)

TAKEOFF MINIMUMS: **Rwy 10**, std. with a min. climb of 290' per NM to 5500, or 2600-3 for climb in visual conditions. **Rwy 15**, std. with a min. climb of 320' per NM to 6000, or 2600-3 for climb in visual conditions. **Rwy 28**, std. with a min. climb of 415' per NM to 6600, or 2600-3 for climb in visual conditions. **Rwy 33**, std. with a min. climb of 350' per NM to 6700, or 2600-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 104°to 5500 before proceeding on course or for climb in visual conditions cross Prineville airport at or above 5700 before proceeding on course. When executing VCOA, notify ATC prior to departure. **Rwy 15**, climb heading 156°to 6000 before proceeding on course or for climb in visual conditions cross Prineville airport at or above 5700 before proceeding on course. When executing VCOA, notify ATC prior to departure. **Rwy 28**, climb heading 284°to 6600 before proceeding on course or for climb in visual conditions cross Prineville airport at or above 5700 before proceeding on course. When executing VCOA, notify ATC prior to departure. **Rwy 33**, climb heading 336°to 6700 before proceeding on course or for climb in visual conditions cross Prineville airport at or above 5700 before proceeding on course. When executing VCOA, notify ATC prior to departure.

NOTE: **Rwy 10**, flag pole 69' from DER, 248' left of centerline, 22' AGL/3258' MSL. Tree, vehicle on road, and pole beginning 542' from DER, 277' right of centerline, up to 47' AGL/3307' MSL. **Rwy 15**, building 36' from DER, 368' left of centerline, 27' AGL/3277' MSL. Trees beginning 106' from DER, 151' right of centerline, up to 20' AGL/3266' MSL. Trees beginning 192' from DER, 25' left of centerline, up to 27' AGL/3277' MSL. **Rwy 28**, trees beginning 51' from DER, 33' left of centerline, up to 28' AGL/3283' MSL. Trees beginning 161' from DER, 183' right of centerline, up to 30' AGL/3589' MSL. **Rwy 33**, terrain and trees beginning 100' from DER, 72' right of centerline, up to 43' AGL/3287' MSL. Terrain 129' from DER, 81' left of centerline, 3243' MSL.

PULLMAN-MOSCOW, ID, WA

PULLMAN-MOSCOW RGNL (PUW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 12264 (FAA)

TAKEOFF MINIMUMS: **Rwy 6,** 300-1¼ w/ min. climb of 295' per NM to 4500 or standard w/ min. climb of 547' per NM to 3100 or 4600-3 for climb in visual conditions. When executing VCOA, notify ATC prior to departure. **Rwy 24,** 300-1¼ or standard w/ min. climb of 377' per NM to 2900.

DEPARTURE PROCEDURE: **Rwy 6,** climb heading 055° to 3100 then climbing left turn direct PUW VOR/DME, continue climb in PUW VOR/DME holding pattern (SW, left turns, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions: cross Pullman/Moscow RGNL at or above 4500. **Rwy 24,** climbing left turn to intercept PUW VOR/DME R-021 to PUW VOR/DME, continue climb in PUW VOR/DME holding pattern (SW, left turns, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: **Rwy 6,** ground beginning at 1331' left of centerline to 1244' right of centerline, up to 2733' MSL. Hazard light 675' from DER, 122' right of centerline, 10' AGL/2589' MSL. Tree 1514' from DER, 856' right of centerline, 30' AGL/2669' MSL. Hazard light 1522' from DER, 14' right of centerline, 10' AGL/2634' MSL. Hazard light 2691' from DER, 115' right of centerline, 10' AGL/2700' MSL. Tree 2795' from DER, 1080' right of centerline, 30' AGL/2750' MSL. Tree 3494' from DER, 770' left of centerline, 30' AGL/2674' MSL. Fence 6031' from DER, 324' left of centerline, 8' AGL/2717' MSL. **Rwy 24,** sign 24' from DER, 154' right of centerline, 8' AGL/2544' MSL. Ground beginning 667' from DER, beginning 867' right of centerline to 216' right of centerline up to 2696' MSL. Fence 2582' from DER, 497' right of centerline 8' AGL/2611' MSL. Fence 3214' from DER, 854' right of centerline, 8' AGL/2667' MSL. Trees beginning 4635' from DER, 531' left of centerline to 1567' right of centerline, up to 30' AGL/2769' MSL. Vent on tank 5822' from DER, 1916' right of centerline, 20' AGL/2717' MSL.

PUYALLUP, WA

PIERCE COUNTY-THUN FIELD (PLU)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 15288 (FAA)

TAKEOFF MINIMUMS: **Rwy 35,** 300-1 with min. climb of 270' per NM to 1000 or std. w/min. climb of 470' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 17,** climbing right turn heading 023° to intercept SEA R-158 to COTNY INT/SEA 18.00 DME and hold. Continue climb in holding pattern (hold South, left turns, 338° inbound) to cross COTNY at or above the MEA for direction of flight. Do not exceed 175 KIAS until established at MEA for route of flight. **Rwy 35,** climb on heading 346° and SEA R-158 to COTNY INT/SEA 18.00 DME and hold. Continue climb in holding pattern (hold South, left turns, 338° inbound) to cross COTNY at or above the MEA for direction of flight. Do not exceed 175 KIAS until established at MEA for route of flight.

NOTE: **Rwy 17,** building and trees beginning 187' from DER, 416' left of centerline, up to 40' AGL/575' MSL. Pole 510' from DER, 566' right of centerline, 40' AGL/552' MSL. Vehicles on road beginning 1149' from DER, 511' right of centerline, up to 15' AGL/582' MSL. Utilities 1519' from DER, 302' left of centerline, 6' AGL/574' MSL. Trees beginning 3360' from DER, left and right of centerline, up to 100' AGL/662' MSL. **Rwy 35,** trees beginning 58' from DER, 291' right of centerline, up to 70' AGL/609' MSL. Trees beginning 350' from DER, 380' left of centerline, 60' AGL/581' MSL. Tree 778' from DER, 590' left of centerline, 100' AGL/636' MSL. Trees beginning 1036' from DER, 365' right of centerline, up to 100' AGL/631' MSL. Tree 2651' from DER, 1029' right of centerline, 100' AGL/694' MSL. Tree 2798' from DER, 22' left of centerline, 100' AGL/654' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 15288 (FAA)

Rwy 17, heading as assigned by ATC; requires minimum climb of 230' per NM to 2100. **Rwy 35,** heading as assigned by ATC; requires minimum climb of 470' per NM to 800.

RAWLINS, WY

RAWLINS MUNI/HARVEY FIELD (RWL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 15120 (FAA)

TAKEOFF MINIMUMS: **Rwy 4,** 500-2¾ or std. w/min. climb of 250' per NM to 7400. **Rwy 22,** 600-2¾ or std. w/min. climb of 335' per NM to 7600. **Rwy 10, 28,** NA – Environmental.

DEPARTURE PROCEDURE: **Rwy 4,** climbing right turn heading 170° to intercept CKW VOR/DME R-080 to CKW VOR/DME to 10000 before proceeding on course. **Rwy 22,** Climb heading 224° to intercept CKW VOR/DME R-085 to CKW VOR/DME to 10000 before proceeding on course.

NOTE: **Rwy 4,** NAVAIDs 13' from DER, 123' left and right of centerline up to 6820' MSL. Terrain beginning 13' from DER, 124' left and right of centerline, up to 6919' MSL. Utility pole 204' from DER, 426' left of centerline, 4' AGL/6842' MSL. Vehicles 347' from DER, crossing left and right of centerline, up to 15' AGL/6868' MSL. Fence and vertical structure 1303' from DER, 651' left of centerline, 10' AGL/6882' MSL. Fence and vertical structures beginning 1941' from DER, 799' left of centerline up to 10' AGL/6890' MSL. Tree 151' from DER, 150' right of centerline, 6823' MSL. Vehicles 194' from DER, 506' right of centerline, 15' AGL/6951' MSL. Fence beginning 837' from DER, 605' right of centerline 15' AGL/6845' MSL. **Rwy 22,** vehicles beginning 1' from DER, crossing left and right of centerline, 15' AGL/6760' MSL. Buildings beginning 182' from DER, 378' right of centerline, up to 12' AGL/6757' MSL. Power lines and poles beginning 207' from DER, 489' right of centerline, up to 24' AGL/6769' MSL. Transmission line tower 340' from DER, 324' right of centerline, 32' AGL/6774' MSL. Tank 616' from DER, 578' right of centerline, 35' AGL/6761' MSL. Tank 646' from DER, 429' right of centerline, 42' AGL/6769' MSL.

REDMOND, OR

ROBERTS FIELD (RDM)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 15232 (FAA)

TAKEOFF MINIMUMS: **Rwy 5,** std. w/min. climb of 260' per NM to 5000. **Rwy 23,** std. w/min. climb of 235' per NM to 4500. **Rwy 29,** std. w/min. climb of 240' per NM to 4500.

DEPARTURE PROCEDURE: **Rwy 5,** Climbing left turn on heading 269° and DSD R-047 to DSD VORTAC, thence… **Rwy 11,** Climbing right turn on heading 244° and DSD R-090 to DSD VORTAC, thence… **Rwy 23,** Climb heading 226° and DSD R-090 to DSD VORTAC, thence… **Rwy 29,** Climbing left turn on heading 279° and DSD R-045 to DSD VORTAC, thence… ...climb in DSD VORTAC holding pattern (hold North, right turn,168° inbound) to cross DSD VORTAC at or above MEA/MCA for route of flight before proceeding on course.

NOTE: **Rwy 29,** trees beginning 12' from DER, 421' right of centerline, up to 12' AGL/3079' MSL. Tree 364' from DER, 449' left of centerline, 15' AGL/3054' MSL.

RENTON, WA

RENTON MUNI (RNT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 8 11349 (FAA)

TAKEOFF MINIMUMS: **Rwy 16**, std. w/min. climb of 405' per NM to 2000. **Rwy 34**, std. w/min. climb of 315' per NM to 2700.

DEPARTURE PROCEDURE: **Rwy 16,** climb heading 157° to 3000, then climbing right turn to intercept SEA R-180 to SEA VORTAC, thence...

Rwy 34, climb heading 337° to 3000, then climbing left turn to intercept SEA R-340 to SEA VORTAC, thence...

...Climb in holding pattern (East, left turns, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 16,** sign 40' from DER, 391' right of centerline, 17' AGL/49' MSL. Blast shield 185' from DER, 4' left of centerline, 17' AGL/49' MSL. Light poles left and right of centerline, beginning 267' from DER, up to 39' AGL/71' MSL. Trees beginning 947' from DER, 407' right of centerline, up to 82' AGL/114' MSL. Tree 1.2 NM from DER, 486' right of centerline, 90' AGL/232' MSL. Transmission towers beginning 1.4 NM from DER, 2119' left of centerline, up to 118' AGL/453' MSL. Trees left and right of centerline beginning 1.5 NM from DER, up to 108' AGL/334' MSL. Trees beginning 1.7 NM from DER, 3021' left of centerline, up to 100' AGL/574' MSL. **Rwy 34,** wood piling 75' from DER, 176' right of centerline, 2' AGL/26' MSL. Tree 1.6 NM from DER, 1437' left of centerline, 130' AGL/327' MSL. Trees beginning 1.8 NM from DER, 155' left of centerline, up to 128' AGL/485' MSL. Trees beginning 2 NM from DER, 768' right of centerline, up to 195' AGL/459' MSL.

REXBURG, ID

REXBURG-MADISON COUNTY (RXE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 02220 (FAA)

DEPARTURE PROCEDURE: **Rwy 17,** climbing right turn. **Rwy 35,** climbing left turn. **All aircraft** climb via IDA VOR/DME R-015 to RIGBY INT to MEA for route of flight before proceeding on course.

NOTE: **Rwy 17,** 100'AGL trees 125' from DER, 350' left of centerline. **Rwy 35,** 100' AGL trees 350' from DER, 450' right of centerline. 100' AGL trees 750' from DER, 500' left of centerline.

RICHLAND, WA

RICHLAND (RLD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 9 14317 (FAA)

TAKEOFF MINIMUMS: **Rwys 1, 8,** std. w/ min. climb of 310' per NM to 5000, or 4600-3 for VCOA. **Rwy 19,** std. w/ min. climb of 480' per NM to 5000, or 4600-3 for VCOA. **Rwy 26,** std. w/ min. climb of 355' per NM to 5000, or 4600-3 for VCOA.

DEPARTURE PROCEDURE: **Rwys 1, 8,** climbing left turn heading 220°to intercept PSC VOR/DME R-273 to 6000 to PAPPS INT /PSC 32.51 DME before proceeding on course. **Rwy 19,** climbing right turn heading 310°to intercept PSC VOR/DME R-273 to 6000 to PAPPS INT/PSC 32.51 DME before proceeding on course. **Rwy 26,** climbing right turn heading 290°to intercept PSC VOR/DME R-273 to 6000 to PAPPS INT/PSC 32.51 DME before proceeding on course.

VCOA: **All runways,** obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Richland Airport at or above 4800 then on PSC VOR/DME R-273 to PAPPS INT/PSC 32.51 DME before proceeding on course.

NOTE: **Rwy 1,** tree and terrain beginning 34' from DER, 35' left of centerline, up to 27' AGL/407' MSL. Terrain 125' from DER, 154' right of centerline, 394' MSL. Pole and transmission pole beginning 752' from DER, 446' right of centerline, up to 41' AGL/416' MSL. **Rwy 8,** sign 22' from DER, 122' right of centerline, 3' AGL/391' MSL. Terrain beginning 91' from DER, left and right of centerline, 394' MSL. Railroad cars beginning 204' from DER, left and right of centerline, up to 27' AGL/410' MSL. Multiple trees beginning 1510' from DER, 12' right of centerline, up to 25' AGL/438' MSL. Multiple trees beginning 2240' from DER, 94' left of centerline, up to 25' AGL/456' MSL. **Rwy 19,** bush 22' from DER, 493' left of centerline, 11' AGL/401' MSL. Terrain 64' from DER, 169' right of centerline, 394' MSL. Bush 204' from DER, 297' left of centerline, 4' AGL/399' MSL. Multiple trees beginning 323' from DER, 478' right of centerline, up to 25' AGL/424' MSL. Multiple trees beginning 665' from DER, 399' left of centerline, up to 25' AGL/472' MSL. **Rwy 26,** terrain and multiple trees beginning 72' from DER, left and right of centerline, up to 17' AGL/407' MSL. Antenna 304' from DER, 445' right of centerline, 5' AGL/408' MSL. Pole 392' from DER, 255' right of centerline, 1' AGL/409' MSL. Fence 450' from DER, left and right of centerline, up to 5' AGL/425' MSL. Bush, terrain and multiple trees beginning 729' from DER, 231' right of centerline, up to 17' AGL/427' MSL. Multiple trees beginning 1742' from DER, 869' left of centerline, up to 25' AGL/457' MSL.

RIVERTON, WY

RIVERTON RGNL (RIW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 15344 (FAA)

TAKEOFF MINIMUMS: **Rwy 28,** 200-1¼ or std. w/min. climb of 235' per NM to 5800, or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1800' prior to DER.

DEPARTURE PROCEDURE: **Rwy 1, 10, 19, 28,** Climbing right turn direct RIW VOR/DME, continue climb in RIW VOR/DME holding pattern (hold se, rt, 293°inbound) to cross RIW VOR/DME at or above MEA for route of flight.

NOTES: **Rwy 1,** lt support structure 10' from DER, 17' left of centerline, 3' AGL/5481' MSL. Vehicles on road, terrain, and fence beginning 17' from DER, 335' left of centerline, up to 15' AGL/5497' MSL. **Rwy 10,** vehicles on road beginning 1' from DER, 92' right of centerline, up to 15' AGL/5456' MSL. Airfield lt 11' from DER, 4' right of centerline, 2' AGL/5444' MSL. Airfield lt 11' from DER, 6' left of centerline, 2' AGL/5444' MSL. Vehicles on road beginning 90' from DER, 21' right of centerline, up to 15' AGL/5455' MSL. **Rwy 19,** lt support structure 10' from DER, 17' right of centerline, 2' AGL/5465' MSL. Vehicles on road and fence beginning 13' from DER, 255' right of centerline, up to 15' AGL/5473' MSL. T-l tower 936' from DER, 682' right of centerline, 31' AGL/5490' MSL. **Rwy 28,** vehicles on road and terrain beginning 18' from DER, 305' left of centerline, up to 15' AGL/5552' MSL. Vehicles on road beginning 32' from DER, 281' right of centerline, up to 15' AGL/5538' MSL. Building 956' from DER, 287' right of centerline, 4' AGL/5545' MSL. NAVAID 1002' from DER, 2' left of centerline, 7' AGL/5546' MSL. Vehicle on road 1074' from DER, 5' right of centerline, up to 15' AGL/5555' MSL. Vehicles on road and terrain beginning 1300' from DER, 111' right of centerline, up to 15' AGL/5580' MSL. Terrain beginning 1796' from DER, crossing centerline, up to 5571' MSL. Vehicles on road and fence beginning 2497' from DER, crossing centerline, up to 15' AGL/5594' MSL. Vehicles on road beginning 2067' from DER, 754' left of centerline, up to 15' AGL/5597' MSL. Poles beginning 1987' from DER, 365' left of centerline, up to 28' AGL/5611' MSL. T-l towers and catenaries beginning 3401' from DER, crossing centerline, up to 72' AGL/5656' MSL. Antenna and pole beginning 5656' from DER, 1594' right of centerline, up to 50' AGL/5682' MSL. Tower 5972' from DER, 1848' left of centerline, 64' AGL/5679' MSL.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER COUNTY (RKS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 10098 (FAA)

DEPARTURE PROCEDURE: **Rwy 3,** climb heading 032°to 8000 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260°inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 9,** climb heading 090°to 8200 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 21,** climb heading 212°to 8400, then climbing right turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260°inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 27,** climb heading 270°to 7900, then climbing right turn via OCS R-291 to OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 3,** vehicle on road beginning 22' from DER, 120' left of centerline, up to 20' AGL/6760' MSL, bushes beginning 178' from DER, 517' right of centerline, up to 15' AGL/6755' MSL. **Rwy 21,** bush 53' from DER, 221' left of centerline, 15' AGL/6737' MSL.

RONAN, MT

RONAN (7S0)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 09295 (FAA)

TAKEOFF MINIMUMS: **Rwy 16,** std. w/ min. climb of 260' per NM to 9900 or 6100-3 for climb in visual conditions. **Rwy 34,** std. w/ min. climb of 250' per NM to 9900 or 6100-3 in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16,** climb to 8800 on a heading between 177°CW to 336°from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course. **Rwy 34,** climb to 8800 on a heading between 336°CCW to 177°from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course.

NOTE: **Rwy 16,** tree 485' from DER, 386' left of centerline 50' AGL/3149' MSL. **Rwy 34,** building 158' from DER, 370' left of centerline 40' AGL/3130' MSL. Tree 1358' from DER, 556' left of centerline 50' AGL/3149' MSL.

ROSEBURG, OR

ROSEBURG RGNL (RBG)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 7 12264 (FAA)

TAKEOFF MINIMUMS: **Rwys 16, 34,** NA at night-Unlit obstacles. **Rwy 16**, 800-2 w/ min. climb of 500' per NM to 4500, or 2700-3 for climb in visual conditions. **Rwy 34**, 900-2½ w/ min. climb of 500' per NM to 4500, or 2700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16,** climb direct RBG VOR/DME, continue climb in RBG VOR/DME holding pattern (Hold N, right turns, 163°inbound) to cross RBG VOR/DME at or above MEA/MCA for route of flight, thence ...

Rwy 34, climb heading 342°to 2900 before proceeding on course, thence …

...or for climb in visual conditions cross Roseburg RGNL Airport southbound at or above 3100 then direct RBG VOR/DME, continue climb in RBG VOR/DME holding pattern (Hold N, right turns, 163°inbound) to cross RBG VOR/DME at or above MEA/MCA for route of flight. When executing VCOA, notify ATC prior to departure.

NOTE: **Rwy 16,** pole, 54' from DER, 290' left of centerline, 13' AGL/525' MSL. Vehicle on road, 269' from DER, 259' right of centerline, 15' AGL/528' MSL. Trees, beginning 296' from DER, 437' left of centerline, up to 100' AGL/611' MSL. Area of trees and towers, 1.27 NM from DER beginning 466' right of centerline, up to 123' AGL/1268' MSL. **Rwy 34,** pole, 238' from DER, 361' left of centerline, 28' AGL/557' MSL. Trees, beginning 245' from DER, left and right of centerline, up to 100' AGL/1339' MSL. Sign, 390' from DER, 557' left of centerline, 60' AGL/565' MSL. Sign, 620' from DER, 557' left of centerline, 60' AGL/565' MSL. Terrain, 663' from DER, 290' right of centerline, 608' MSL.

ROUNDUP, MT

ROUNDUP (RPX)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 12264 (FAA)

DEPARTURE PROCEDURE: **Rwy 25,** climb heading 247°to 4500 before turning right.

NOTE: **Rwy 7,** trees and terrain beginning 13' from DER, 360' right of centerline, up to 45' AGL/3445' MSL. Trees beginning 502' from DER, 590' right of centerline, up to 45' AGL/3446' MSL. Poles 85' from DER, 458' right of centerline, up to 16' AGL/3439' MSL. **Rwy 25,** trees and terrain beginning 12' from DER, 8' left of centerline, up to 45' AGL/3523' MSL. Poles 313' from DER, 192' right of centerline, up to 16' AGL/3500' MSL. Trees beginning 343' from DER, 204' right of centerline, up to 45' AGL/3502' MSL. Vehicles on roadway 535' from DER, across centerline, up to 15' AGL/3519' MSL. Trees and terrain beginning 676' from DER, 2' left of centerline, up to 45' AGL/3528' MSL. Trees and terrain beginning 729' from DER, 1' right of centerline, up to 45' AGL/3519' MSL.

SALEM, OR

MCNARY FIELD (SLE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 8A 12264 (FAA)

TAKEOFF MINIMUMS: **Rwy 13,** std. w/min. climb of 260' per NM to 1100 or 1400-2½ for climb in visual conditions. **Rwy 16,** std. w/min. climb of 570' per NM to 1100 or 400-2½ w/ min. climb of 260' per NM to 1100 or 1400-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13,** climb direct TURNO LOM (ADF required). Westbound aircraft, proceed on course. Eastbound aircraft continue climb in holding (hold SE, left turns, 313° inbound) to cross TURNO LOM/INT at or above 2500' before proceeding on course, or for climb in visual conditions cross McNary Field Airport at or above 1500 before proceeding on course. When executing VCOA, notify ATC prior to departure. **Rwy 16,** climbing left turn direct TURNO LOM (ADF required). Westbound aircraft, proceed on course. Eastbound aircraft continue climb in holding (hold SE, left turns, 313° inbound) to cross TURNO LOM INT at or above 2500 before proceeding on course, or for climb in visual conditions cross McNary Field Airport at or above 1500 before proceeding on course. When executing VCOA, notify ATC prior to departure. **Rwys 31,34,** climbing right turn direct TURNO LOM (ADF required). Westbound aircraft proceed on course. Eastbound aircraft continue climb in holding (hold SE, left turns, 313° inbound) to cross T URNO LOM/INT at or above 2500 before proceeding on course.

NOTE: **Rwy 13,** vehicles on road beginning 381' from DER, 153' right of centerline, up to 15' AGL/ 225' MSL. Trees beginning 1515' from DER, 590' left of centerline, up to 100' AGL/ 320' MSL. Trees beginning 3712' from DER, 952' right of centerline, up to 80' AGL/ 372' MSL. **Rwy 16,** trees beginning 554' from DER, 66' right of centerline, up to 75' AGL/ 569' MSL. Trees beginning 1202' from DER, 302' left of centerline, up to 95' AGL/ 534' MSL. Pole 750' from DER, 226' right of centerline, 21' AGL/ 231' MSL. Monopole 862' from DER, 150' right of centerline, 40' AGL/254' MSL. Building 1202' from DER, 66' left of centerline, 39' AGL/ 255' MSL. **Rwy 31,** trees beginning 1220' from DER, 480' left of centerline, up to 88' AGL/ 268' MSL. Tree beginning 2988' from DER, 277' right of centerline, 90' AGL/ 270' MSL. **Rwy 34,** vehicle on road beginning 469' from DER, 252' right of centerline, 15' AGL/ 208' MSL. Trees beginning 1691' from DER, 229' right of centerline, up to 98' AGL/ 282' MSL. Tree 3238' from DER, 330' left of centerline, 98' AGL/ 288' MSL.

SALMON, ID

LEMHI COUNTY (SMN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 03247 (FAA)

TAKEOFF MINIMUMS: **Rwy 17,** NA. **Rwy 35,** 4300-5 or std. with a min. climb of 390' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 17,** NA. **Rwy 35,** climb runway heading to 8000, then climbing left turn to 11,300 direct LKT VOR/DME before proceeding on course.

SANDPOINT, ID

SANDPOINT (SZT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 96256 (FAA)

TAKEOFF MINIMUMS: **Rwy 1,** 4200-2 or std. with a min. climb of 520' per NM to 5800. **Rwy 19,** 2200-2 or std. with a min. climb of 480' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 1,** climbing right turn to COE VOR/DME via heading 200° and COE R-002. **Rwy 19,** climbing left turn to COE VOR/DME via heading 140° and COE R-002.

SARATOGA, WY

SHIVELY FIELD (SAA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 95089 (FAA)

TAKEOFF MINIMUMS: **Rwy 23,** 400-1 or std. with a min. climb of 220' per NM to 7400.

DEPARTURE PROCEDURE: **Rwy 5,** turn left heading 280°. **Rwy 23,** turn right heading 340°. **All aircraft** climb to 9000 via 310° bearing from SAA NDB then continue climb on course.

NOTE: **Rwy 23,** 7174' MSL tree 1700' from DER left of centerline.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL AIRPARK (SPB)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 00279 (FAA)

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn direct BTG VORTAC. **Rwy 33,** climbing right turn direct BTG VORTAC. Aircraft departing BTG R-160 CW R-329 climbing left turn on course. All others climb in BTG VORTAC holding pattern (NW, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for direction of flight.

NOTE: **Rwy 15,** 158' MSL tree 470' from DER, 499' right of centerline. **Rwy 33,** cross DER 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from DER, 414' right of centerline; 142' MSL trees 1343' from DER, 348' right of centerline.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 15148 (FAA)

Rwys 15, 33, heading as assigned by ATC; requires minimum climb of 280' per NM to 4200.

04 FEB 2016 to 03 MAR 2016

04 FEB 2016 to 03 MAR 2016

SCOBEY, MT

SCOBEY (9S2)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 14065 (FAA)

TAKEOFF MINIMUMS: **Rwy 12,** 300-1½ or std. w/ min. climb of 253' per NM to 2700, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 2100' prior to DER.

DEPARTURE PROCEDURE: **Rwy 12,** climb heading 122°to 3200 before turning left.

NOTE: **Rwy 12,** pole 11' from DER, 338' left of centerline, 14' AGL/2448' MSL. Light 12' from DER, 26' right of centerline, 2' AGL/2436' MSL. Tree 79' from DER, 444' left of centerline, 23' AGL/2453' MSL. Terrain beginning 81' from DER, 338' right of centerline, 2438' MSL. Vehicles on road beginning 178' from DER, 116' left of centerline, up to 15' AGL/2452' MSL. Vehicles on road beginning 318' from DER, 15' right of centerline, up to 15' AGL/2452' MSL. Building, grain silo and water tower beginning 4734' from DER, 135' right of centerline, up to 127' AGL/2626' MSL. **Rwy 30,** light 9' from DER, 27' left of centerline, 2' AGL/2392' MSL. Light 9' from DER, 27' right of centerline, 2' AGL/2392' MSL. Multiple trees beginning 219' from DER, 166' left of centerline, up to 16' AGL/2406' MSL.

SEATTLE, WA

BOEING FIELD/KING COUNTY INTL (BFI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 7 12152 (FAA)

TAKEOFF MINIMUMS: **Rwy 13L,** std. w/min. climb of 663' per NM to 500 or 500-2 ¾ with minimum climb of 250' per NM to 800, or 1100-3 for climb in visual conditions. **Rwy 13R,** std. w/min. climb of 504' per NM to 900 or 500-1 ¾ with minimum climb of 386' per NM to 900, or 1100-3 for climb in visual conditions. **Rwy 31L,** std. w/min. climb of 480' per NM to 500 or 300-1¼ with minimum climb of 265' per NM to 900, or 1100-3 for climb in visual conditions. **Rwy 31R,** std. w/min. climb of 371' per NM to 500 or 400-2 with minimum climb of 240' per NM to 800, or 1100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13L,** climbing right turn thence... **Rwy 13R,** climbing right turn thence... **Rwy 31L,** climbing left turn thence... **Rwy 31R,** climbing left turn thence...

... All aircraft climb direct to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold East, left turns, 290°inbound) to cross SEA VORTAC at or above 3000. For climb in visual conditions cross Boeing Field/ King County Intl Airport at or above 1000, then climb to 3000 via SEA R-344 to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold East, left turns, 290°inbound) to cross SEA VORTAC at or above 3000. When executing VCOA, notify ATC prior to departure.

NOTE: **Rwy13L,** hangar 402' from DER, 411' left of centerline 16' AGL/ 32' MSL. Building 621' from DER, 526' left of centerline 16' AGL/ 51' MSL. Trees beginning 2475' from DER, 353' left of centerline, up to 100' AGL/ 362' MSL. **Rwy 13R,** train on tracks 197' from DER, 379' left of centerline, 23' AGL/ 48' MSL. Obstruction light on DME 552' from DER, 304' right of centerline, 16' AGL/ 38' MSL. Aircraft 521' from DER, 576' right of centerline, up to 64' AGL/ 96' MSL. Trees beginning 602' from DER, left and right of centerline, up to 100' AGL/ 411' MSL. Vehicles on road, 621' from DER, 657' left of centerline, up to 15' AGL/ 64' MSL. Obstruction light on floodlight 837' from DER, 607' right of centerline, 16' AGL/ 61' MSL. Obstruction light on poles, 1277' from DER, left and right of centerline, up to 16' AGL/ 55' MSL. Poles 1333' from DER, 251' left of centerline, up to 16' AGL/ 64' MSL. Power line, 1338' from DER, 294' left of centerline, 16' AGL/ 82' MSL. Power pole, 4014' from DER, 910' right of centerline, up to 82' AGL/ 134' MSL. **Rwy 31L,** airplane on taxiway 28' from DER, 327' left of centerline, up to 64' AGL/ 96' MSL. Obstruction light on blast fence, 249' from DER, 452' left of centerline, 16' AGL/ 26' MSL. Obstruction light on building 1217' from DER, 626' left of centerline, up to 16' AGL/ 101' MSL. Vent on building 1244' from DER, 446' right of centerline, 16' AGL/ 59' MSL. Trees beginning 1456' from DER, left and right of centerline, up to 100' AGL/313' MSL. Power line 2507' from DER, 439' right of centerline, 100' AGL/ 132' MSL. Light standard 2980' from DER, 876' right of centerline, 16' AGL/ 99' MSL. Floodlights, 3499' from DER, 1023' right of centerline, up to 164' AGL/ 199' MSL. Flagpole 3763' from DER, 1278' right of centerline, up to 131' AGL/ 196' MSL. Stack, 3792' from DER, 543' right of centerline, up to 16' AGL/ 120' MSL. **Rwy 31R,** airplane on taxiway 5' from DER, left and right of centerline, up to 64' AGL/96' MSL. Weather rod on obstruction lights, 214' from DER, 99' left of centerline, up to 16' AGL/ 51' MSL. Obstruction light on glideslope, 527' from DER, 101' left of centerline, up to 16' AGL/44' MSL. Hangars 854' from DER, 405' right of centerline, up to 16' AGL/ 57' MSL. Antenna on building 1425' from DER, 516' right of centerline, 32' AGL/ 81' MSL. Obstruction light on building, 2495' from DER, 1002' left of centerline, up to 16' AGL/ 101' MSL. Trees beginning 2734' from DER, left and right of centerline, up to 100' AGL/ 362' MSL. Vehicles on road beginning 469' from DER, 252' right of centerline, 15' AGL/ 208' MSL. Trees beginning 1691' from DER, 229' right of centerline, up to 98' AGL/ 282' MSL. Tree 3238' from DER, 330' left of centerline, 98' AGL/ 288' MSL. Flagpole 5040' from DER, 902' right of centerline, 131' AGL/ 196' MSL. Transmission tower 1.5 NM from DER, 2390' right of centerline, 229' AGL/ 350' MSL.

SEATTLE, WA (CON'T)

SEATTLE-TACOMA INTL (SEA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 08325 (FAA)

DEPARTURE PROCEDURE: **Rwys 16L, 16C, 16R,** climb to 1000 via heading 163°, then climbing right turn direct SEA VORTAC, thence...

Rwys 34L, 34C, 34R, climb to 1000 via heading 343°, then climbing left turn direct SEA VORTAC, thence...

...climb in SEA VORTAC holding pattern (hold SE, left turns, 310° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 16L,** trees beginning 2908' from DER, 1064' right of centerline, up to 100' AGL/476' MSL. **Rwy 16C,** trees beginning 4477' from DER, 484' right of centerline, up to 100' AGL/507' MSL. **Rwy 16R,** trees, antenna on building and light pole beginning 488' from DER, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from DER, 587' right of centerline, up to 100' AGL/468' MSL. **Rwy 34L,** fence 189' from DER, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from DER, 857' left of centerline, up to 100' AGL/522' MSL.

SHELBY, MT

SHELBY (SBX)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 07074 (FAA)

TAKEOFF MINIMUMS: **Rwy 5,** 200-1¼ or std. w/ min. climb of 212' per NM to 3700, or alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1300' prior to DER.

NOTE: **Rwy 5,** fence post 320' from DER, 162' right of centerline, 12' AGL/3455' MSL, truck on road beginning 515' from DER, 632' right of centerline, 17' AGL/3498' MSL, tree 1 NM from DER, 1242' left of centerline, 75' AGL/3604' MSL. **Rwy 11,** truck on road 906' from DER, 691' left of centerline, 17' AGL/3456' MSL, tree 1697' from DER, 26' right of centerline, 75' AGL/3495' MSL, tree 1561' from DER, 322' left of centerline, 75' AGL/3514' MSL, light standard 852' from DER, 174' left of centerline, 22' AGL/3451' MSL.

SHELTON, WA

SANDERSON FIELD (SHN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 06271 (FAA)

TAKEOFF MINIMUMS: **Rwy 5,** std. w/ a min. climb of 312' per NM to 4000, or 1500-2½ for a climb in visual conditions. **Rwy 23**, std. w/ a min. climb of 414' per NM to 4000, or 1500-2½ for a climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5,** climbing right turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000. **Rwy 23,** climbing left turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000.

NOTE: **Rwy 5,** multiple trees beginning 550' from DER, 107' left of centerline, up to 94' AGL/366' MSL. Multiple trees beginning 130' from DER, 70' right of centerline, up to 80' AGL/352' MSL. **Rwy 23,** multiple trees beginning 52' from DER, 149'left of centerline, up to 72' AGL/330' MSL. Multiple trees beginning 886' from DER, 153' right of centerline, up to 155' AGL/486' MSL.

SHERIDAN, WY

SHERIDAN COUNTY (SHR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 15176 (FAA)

TAKEOFF MINIMUMS: **Rwy 6,** standard with minimum climb of 267' per NM to 5000 or 1400-3 for VCOA. **Rwy 15,** standard with minimum climb of 265' per NM to 5100 or 1400-3 for VCOA. **Rwy 24,** standard with minimum climb of 360' per NM to 5200 or 1400-3 for VCOA.

DEPARTURE PROCEDURE: **Rwy 6,** Climbing left turn to intercept SHR R-109 to SHR VOR/DME, thence… **Rwy 15,** Climbing left turn heading 330 to intercept SHR R-109 to SHR VOR/DME, thence… **Rwy 24,** Climbing right turn to intercept SHR R-156 to SHR VOR/DME, thence… **Rwy 33,** Climb heading 326° to intercept SHR R-109 to SHR VOR/DME, thence… …continue climb in SHR VOR/DME holding pattern (hold northwest, left turns, 136° inbound) to cross SHR VOR/DME at or above MEA for direction of flight before proceeding on course.

VISUAL CLIMB: **Rwy 6, 15, 24,** obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Sheridan county airport at or above 5300, then proceed on SHR R-132 to SHR VOR/DME. Continue climb in SHR VOR/DME holding pattern (hold northwest, left turns, 136° inbound) to cross SHR VOR/DME at or above MEA for direction of flight before proceeding on course.

NOTE: **Rwy 6,** elec sys 10' from DER, 17' left of centerline, 6' AGL/3941 MSL. Signs beginning 37' from DER, 350' right of centerline, up to 7' AGL/3943' MSL. Multiple trees and buildings beginning 92' from DER, 213' left of centerline, up to 80' AGL/3990' MSL. **Rwy 24,** rising terrain beginning 18' from DER up to 4441' MSL. Trees, towers, road, poles, NAVAID and bushes beginning 41' from DER up to 65' AGL/4284' MSL. Fence beginning 73' from DER, 500' left and 654' right of centerline, up to 10' AGL/4060' MSL. Power lines beginning 4393' from DER, 1531' left of centerline, up to 67' AGL/4286' MSL. **Rwy 33,** electrical equipment 53' from DER, 398' right of centerline, 14' AGL/4020' MSL.

SIDNEY, MT

SIDNEY-RICHLAND MUNI (SDY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 13010 (FAA)

TAKEOFF MINIMUMS: **Rwy 29**, 400-2½ or std. w/min. climb of 315' per NM to 2500.

DEPARTURE PROCEDURE: **Rwy 11,** climb heading 108° to 2700 before turning right. **Rwy 29,** climb heading 288° to 2800 before proceeding on course.

NOTE: **Rwy 1,** trees beginning 86' from DER, left and right of centerline, up to 30' AGL/2072' MSL. **Rwy 19,** trees beginning 245' from DER, 302' right of centerline, up to 30' AGL/2029' MSL. Vehicle on road beginning 5' from DER, 308' right of centerline, up to 17' AGL/2003' MSL. Pole, 21' from DER, 298' right of centerline, up to 10' AGL/1992' MSL. **Rwy 29,** terrain left and right of centerline beginning 962' from DER, up to 2126' MSL. Poles beginning 1196' from DER, left and right of centerline, up to 39' AGL/2181' MSL. Trees beginning 596' from DER, 165' right of centerline, up to 30' AGL/2026' MSL. Derrick 1452' from DER, 207' left of centerline, up to 47' AGL/2028' MSL. Vehicle on road 504' from DER, 15' right of centerline, up to 17' AGL/1998' MSL.

SNOHOMISH, WA

HARVEY FIELD (S43)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 13122 (FAA)

TAKEOFF MINIMUMS: **Rwys 15R, 33L**, NA-obstacles. **Rwy 15L,** std. w/ min. climb of 355' per NM to 1100, or 1200-2½ for climb in visual conditions. **Rwy 33R,** std. w/ min. climb of 480' per NM to 800, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15L,** climbing right turn on 344° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 332° course to WATON LOM, thence ...

Rwy 33R, climb on 332° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 332° course to WATON LOM, thence ...

... aircraft departing WATON LOM on bearings 150° CW 340° from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM, climb in holding pattern (South, left turns, 342° inbound) to cross WATON LOM at or above 4500 before proceeding on course.

NOTE**: Rwy 15L,** fence 37' from DER, left and right of centerline, 10' AGL/32' MSL. Vehicles on roadway 44' from DER, left and right of centerline, 15' AGL/37' MSL. Tree 81' from DER, 177' right of centerline, 83' AGL/106' MSL. Trees 685' from DER, left and right of centerline, up to 48' AGL/70' MSL. **Rwy 33R,** Power line beginning 32' from DER, left and right of centerline, 22' AGL/38' MSL. Power line 131' from DER, left and right of centerline, 47' AGL/63' MSL. Tower 5708' from DER, 1956' right of centerline, 207' AGL/301' MSL. Tower 1 NM from DER, 2033' right of centerline, 212' AGL/264' MSL.

SPOKANE, WA

FELTS FIELD (SFF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 13234 (FAA)

TAKEOFF MINIMUMS: **Rwy 4L/R,** std. w/min. climb of 400' per NM to 3700, or 2300-3 for climb in visual conditions**. Rwy 22L/R,** std. w/min. climb of 370' per NM to 3200, or 2300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4L/R,** climb heading 038° to 3600, then climbing right turn on heading 210° and GEG R-050 to GEG VORTAC or for climb In visual conditions: cross Felts Field airport at or above 4100, then on heading 165° and GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above MCA/MEA for route of flight. **Rwy 22L/R,** climb heading 218° to 3200, then climbing left turn on heading 190° and GEG R-050 to GEG VORTAC or for climb In visual conditions: cross Felts Field airport at or above 4100, then on heading 165° and GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above MCA/MEA for route of flight.

NOTE: **Rwy 4L,** trees and buildings beginning 1151' from DER, 757' right of centerline, up to 25' AGL/2037' MSL. Trees beginning 4873' from DER, 348' left of centerline, up to 25' AGL/2099' MSL. Trees and buildings beginning 1.1 NM from DER, 67' left of centerline, up to 25' AGL/2274' MSL. Trees 1.2 NM from DER, 970' left of centerline, up to 25' AGL/2304' MSL. Buildings beginning 1.5 NM from DER, 1151' left of centerline, up to 2350' MSL. Trees 1.6 NM from DER, 517' left of centerline, up to 25' AGL/2385' MSL. Trees 2 NM from DER 590' left of centerline, up to 25' AGL/2513' MSL. Trees 2.4 NM from DER, 13' right of centerline, up to 25' AGL/2480' MSL. Transmission pole, trees and building beginning 2.5 NM from DER, 13' left of centerline, up to 25' AGL/2534' MSL. Vertical structures beginning 2.7 NM from DER, 2839' left of centerline, 2449' MSL. High terrain beginning 2.7 NM from DER, 42' left of centerline, 2439' MSL. High terrain beginning 2.8 NM from DER, 48' right of centerline, 3375' MSL. Vertical structure, trees and poles beginning 2.9 NM from DER, 605' right of centerline, up to 25' AGL/3442' MSL. Trees, poles and antenna beginning 3 NM from DER, 1899' left of centerline, up to 25' AGL/2578' MSL. Transmission tower 3.9 NM from DER, 995' right of centerline, 2570' MSL. **Rwy 4R,** buildings, hanger and NDB 86' from DER, 257' right of centerline, up to 1987' MSL. Trees beginning 930' from DER, 272' right of centerline, up to 25' AGL/2029' MSL. Trees beginning 4884' from DER, 884' left of centerline, up to 25' AGL/2092' MSL. Trees beginning 1.1 NM from DER, 29' left of centerline, up to 25' AGL/2295' MSL. Trees and buildings beginning 2.4 NM from DER, 11' right of centerline, up to 25' AGL/2494' MSL. Poles/ Transmission poles beginning 2.5 NM from DER, 93' left of centerline, up to 2534' MSL. Poles/Transmission poles beginning 2.6 NM from DER, 516' right of centerline, up to 2424' MSL. High terrain beginning 2.5 NM from DER, 67' left of centerline, 2439' MSL. High terrain beginning 2.6 NM from DER, 33' right of centerline, 3375' MSL. Trees, poles and antenna beginning 3.1 NM from DER, 3238' left of centerline, 25' AGL/3442' MSL. Transmission tower 3.9 NM from DER, 496' right of centerline, 2570' MSL.

SPOKANE, WA (CON'T)

FELTS FIELD (SFF) (CON'T)

Rwy 22L, buildings and signs beginning 55' from DER, 74' left of centerline, up to 1998' MSL. Sign 95' from DER, 74' right of centerline, 1953' MSL. Obstruction light pole on building 728' from DER, 301' left of centerline, 1992' MSL. Vehicle on roadway 739' from DER, 481' left of centerline, up to 15' AGL/1971' MSL. Trees and poles beginning 1294' from DER, 183' left of centerline. up to 25' AGL/2045' MSL. Buildings and elevators 4492' from DER, 573' left of centerline, up to 2082' MSL. **Rwy 22R,** navaids 38' from DER, left and right of centerline, 1953' MSL. Vehicles on roadway 187' from DER, 446' right of centerline, up to 15' AGL/1954' MSL. Trees beginning 187' from DER, 511' right of centerline, up to 25' AGL/1979' MSL. Light on hanger 202' from DER, 496' left of centerline, 1969' MSL. Buildings, obstruction light on buildings beginning 210' from DER, 230' left of centerline, up to 1979' MSL. Poles beginning 1271' from DER, 63' right of centerline, up to 1987' MSL. Transmission line towers beginning 1396' from DER, 2' left of centerline, up to 41' AGL/1986' MSL. Elevator and building beginning 2653' from DER, 1073' left of centerline, up to 2082' MSL. Tower 4066' from DER, 1554' left of centerline, 120' AGL/2072' MSL. Rising terrain beginning 3.2 NM from DER, 5087' left of centerline, up to 2339' MSL.

DIVERSE VECTOR AREA (AREA VECTORS)
AMDT 1 15204 (FAA)

Rwy 22L, heading as assigned by ATC; requires minimum climb of 360' per NM to 3700. **Rwy 22R,** heading as assigned by ATC; requires minimum climb of 370' per NM to 3600.

SPOKANE INTL (GEG)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 6 10266 (FAA)

DEPARTURE PROCEDURE: **Rwy 3,** climbing left turn heading 190°and GEG R-010 to GEG VORTAC. Thence...**Rwy 7,** climbing right turn heading 255°and GEG R-075 to GEG VORTAC, thence...**Rwy 21,** climbing right turn heading 208°and GEG R-028 to GEG VORTAC. Thence...**Rwy 25,** climbing left turn heading 176°and GEG R-356 to GEG VORTAC. Thence...
...climb in GEG VORTAC holding pattern (hold Southwest, right turns, 028°inbound) to cross GEG VORTAC at or above MEA for route of flight.

NOTE: **Rwy 3,** multiple trees beginning 1089' from DER, 666' left of centerline, up to 100' AGL/2370' MSL. Tree 1524' from DER, 851' right of centerline, 100' AGL/2374' MSL.

STEVENSVILLE, MT

STEVENSVILLE (32S)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 05076 (FAA)

TAKEOFF MINIMUMS: **Rwy 12,** do not exceed 210 knots until established on MSO R-163. **Rwy 30,** do not exceed 210 knots until established on MSO R-160.

DEPARTURE PROCEDURE: **Rwy 12,** climbing right turn via heading 335 and MSO R-163 to MSO VOR/DME climb in MSO VOR/DME holding pattern (southeast, right turn, 340°inbound) to 13000' before proceeding on course. **Rwy 30,** climbing right turn via heading 025°and MSO R-160 to MSO VOR/DME Climb in MSO VOR/DME holding pattern (southeast, right turn, 340°inbound) to 13000' before proceeding on course.

SUNRIVER, OR

SUNRIVER (S21)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 91206 (FAA)

TAKEOFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 360' per NM to 4400. **Rwy 36,** 600-2 or std. with a min. climb of 240' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 18,** climb runway heading to 7000 then climbing left turn direct DSD VORTAC. **Rwy 36,** climb direct to DSD VORTAC. Then **all aircraft** climb on course.

TACOMA, WA

TACOMA NARROWS (TIW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 01249 (FAA)

TAKEOFF MINIMUMS: **Rwy 35**, 400-1 or std. with a min. climb of 210' per NM to 400'.

DEPARTURE PROCEDURE: **Rwy 17,** turn right, climb via heading 230°to intercept OLM R-009 then direct OLM VORTAC. **Rwy 35,** turn left, climb via heading 270°to intercept SEA R-230 then direct CARRO INT. Continue climb in holding (SW, right turns, 047°inbound) to MEA or assigned altitude for route of flight.

THE DALLES, OR

COLUMBIA GORGE RGNL/THE DALLES MUNI (DLS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 13346 (FAA)

DEPARTURE PROCEDURE: Use DALLES DEPARTURE.

TILLAMOOK, OR

TILLAMOOK (TMK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 11181 (FAA)

TAKEOFF MINIMUMS: **Rwys 1, 13, 19,** NA-ATC.

DEPARTURE PROCEDURE: **Rwy 31,** use FETUJ RNAV DEPARTURE.

TOLEDO, WA

ED CARLSON MEMORIAL FIELD (TDO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 10322 (FAA)

DEPARTURE PROCEDURE: Use ATASY DEPARTURE.

TORRINGTON, WY

TORRINGTON MUNI (TOR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 10042 (FAA)

NOTE: **Rwy 2,** terrain 30' from DER, 277' left of centerline, 4197' MSL. **Rwy 10,** multiple trees and fence beginning 71' from DER, 143' right of centerline, up to 14' AGL/4214' MSL. Terrain 14' from DER, 502' left of centerline, 4199' MSL. **Rwy 28,** terrain 133' from DER, 386' right of centerline, 4213' MSL.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY RGNL (TWF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 13290 (FAA)

TAKEOFF MINIMUMS: **Rwy 12**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 26,** aircraft departing on TWF VORTAC R-240 CW 080° climb on course. All others climb heading 258° to 6000 then climbing right turn direct TWF VORTAC. Climb in holding pattern (hold NW, right turns, 113° inbound) to MCA or MEA for direction of flight. **Rwy 8,** aircraft departing on TWF VORTAC R-260 CW 080° climb on course. All others climb heading 078° to 6000 then climbing right turn direct TWF VORTAC. Climb in holding pattern (hold NW, right turns, 113° inbound) to MCA or MEA for direction of flight. **Rwy 30,** aircraft departing on TWF VORTAC R-240 CW 080° climb on course. All others climb heading 303° to 6000 then climbing right turn direct TWF VORTAC. Climb in holding pattern (hold NW, right turns, 113° inbound) to MCA or MEA for direction of flight.

NOTE: **Rwy 30,** tree 1184' from DER, 751' right of centerline, 71' AGL/4149' MSL.

VANCOUVER, WA

PEARSON FIELD (VUO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 12264 (FAA)

TAKEOFF MINIMUMS: **Rwy 8,** std. w/ min. climb of 358' per NM to 600, or 500-3 w/ min. climb of 201' per NM to 600, or 900-2½ for climb in visual conditions. **Rwy 26,** 600-3 or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8,** climb heading 082° to 500 then climbing left turn direct BTG VORTAC, thence. . .

or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence. . .

Rwy 26, climb heading 262° to 700 then climbing right turn direct BTG VORTAC, thence. . .

or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence. . .

. . .continue climb in BTG VORTAC holding pattern (hold northwest, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8,** tree 1.4 NM from DER, 1283' left of centerline, 100' AGL/395' MSL. Tree 1.7 NM from DER, 701' left of centerline, 100' AGL/401' MSL. Tree 2 NM from DER, 849' left of centerline, 100' AGL/406' MSL. Tree 2.4 NM from DER, 648' left of centerline, 100' AGL/399' MSL. **Rwy 26,** bridge 2704' from DER, 587' left of centerline, 243' AGL/245' MSL. Crane 1.5 NM from DER, 2563' right of centerline, 237' AGL/267' MSL. Transmission line tower 2.5 NM from DER, 2036' right of centerline, 516' AGL/534' MSL.

WALLA WALLA, WA

WALLA WALLA RGNL (ALW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4A 15120 (FAA)

DEPARTURE PROCEDURE: **All aircraft** climbing left turn to 2500 on ALW VOR/DME R-195, then climbing right turn direct ALW VOR/DME to cross ALW VOR/DME at or above MEA or MCA for route of flight.

WEISER, ID

WEISER MUNI (S87)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 08269 (FAA)

TAKEOFF MINIMUMS: **Rwy 12,** std. w/ min. climb of 310' per NM to 3900 or 2400-3 for climb in visual conditions. **Rwy 30,** std. w/ min. climb of 360' per NM to 4000 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12,** climb heading 121° to 3900 before proceeding on course. **Rwy 30,** climb heading 301° to 4000 before proceeding on course

...for climb in visual conditions: cross Weiser Muni airport at or above 4400 before proceeding on course.

NOTE: **Rwy 12,** tree 248' from DER, 443' right of centerline, 100' AGL/2184' MSL. **Rwy 30,** tree 1907' from DER, 769' right of centerline, 100' AGL/2174' MSL.

WENATCHEE, WA
PANGBORN MEMORIAL (EAT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 12152 (FAA)

TAKEOFF MINIMUMS: **Rwys 7, 25,** NA - Obstacles.
Rwy 12, std. w/min. climb of 650' per NM to 3300.
Rwy 30, std. w/min. climb of 650' per NM to 3700.

DEPARTURE PROCEDURE: **Rwys 12,30,** climb to 3000, then climbing left turn to intercept EAT VOR/DME R-101 to COYYA INT, thence ...
... All aircraft continue climb in COYYA holding pattern (hold East, right turns, 281° inbound) until reaching MCA/MEA for direction of flight before proceeding on course.

NOTE: **Rwy 12,** light on building 135' from DER, 401' right of centerline, 41' AGL/1237' MSL. AG equipment 435' from DER, 576' left of centerline, 64' AGL/1260' MSL. Tree 589' from DER, 227' left of centerline, 100' AGL/1251' MSL. Multiple trees beginning 174' from DER, 484' right of centerline, up to 100' AGL/2739' MSL. **Rwy 30,** terrain left and right of centerline beginning 65' from DER, up to 1972' MSL. Tree 1203' from DER, 594' left of centerline, 90' AGL/1276' MSL. Multiple trees beginning 1376' from DER, 493' left of centerline, up to 100' AGL/1276' MSL. Tree 2392' from DER, 189' right of centerline, 100' AGL/1286' MSL. Multiple bush beginning 1.8 NM from DER, 742' right of centerline, up to 100' AGL/1666' MSL. Multiple poles beginning 1.8 NM from DER, 49' right of centerline, up to 453' AGL/1673' MSL. Transmission tower 1.9 NM from DER, 731' right of centerline, 364' AGL/1585' MSL. Multiple poles beginning 2.2 NM from DER, 279' left of centerline, up to 384' AGL/1605' MSL.

WEST YELLOWSTONE, MT
YELLOWSTONE (WYS)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 12040 (FAA)

DEPARTURE PROCEDURE: use TARGY DEPARTURE.

WHEATLAND, WY
PHIFER AIRFIELD (EAN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 07298 (FAA)

DEPARTURE PROCEDURE: **Rwy 8,** climbing left turn to 9000 via heading 030° to intercept IIP VOR/DME R-140 to JEZZY INT, thence. . .
Rwy 26, climbing right turn to 9000 via heading 360° and GYZ NDB course 051° to JEZZY INT, thence. . .
. . .continue climb-in-hold (hold northwest, right turn, 140° inbound) to 9000 before proceeding on course.

NOTE: **Rwy 8,** multiple trees 512' from DER, 584' left of centerline, 100' AGL/4859' MSL. **Rwy 26,** multiple trees, buildings, poles/lights, siren, roads w/ vehicles beginning 2' from DER, on centerline, to 488' left of centerline, 100' AGL/4899' MSL. Multiple trees, buildings, poles/lights, roads w/ vehicles beginning 2' from DER, on centerline to 499' right of centerline, 100' AGL/4859' MSL.

WHIDBEY ISLAND NAS (AULT FIELD) (KNUW)
OAK HARBOR, WA
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
14289

Diverse departures not authorized.

MILITARY DEPARTURE PROCEDURE: **Rwy 7:** Minimum climb of 420'/NM until 800. Climbing left turn to 2000, intercept NUW TACAN R-067, expect radar vectors to join assigned route. **Rwy 14:** Cross DER at or above 11' AGL/58' MSL. Climbing left turn to 2000, intercept NUW TACAN R-128, expect radar vectors to join assigned route. **Rwy 25:** Climb to 2000 via heading 249°expect radar vectors to join assigned route. **Rwy 32:** Climb to 2000 via heading 317°expect radar vectors. **All Rwys:** If vectors are not received by 10 DME of NUW TACAN, climb to 3000, intercept the NUW 11 DME ARC to join assigned route.

CIVIL DEPARTURE PROCEDURE: **Rwy 7:** Minimum climb of 410'/NM until 800. Climb to 2000 via heading 067°expect radar vectors to join assigned route. **Rwy 14**: Cross DER at or above 11' AGL/58' MSL for Take-Off minima of 400-2¾. Climbing left turn to 2000 via heading 128° expect radar vectors to join assigned route. **Rwy 25:** Use published DP or climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32:** Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **All Rwys:** If vectors are not received by 10 DME of NUW TACAN, climb to 3000, proceed direct CVV VOR/DME to join assigned route.

TAKE-OFF OBSTACLES: **Rwy 7,** terrain, 75' MSL, 1902' from DER, 1009' right of centerline. Terrain, 75' MSL, 1983' from DER, 1005' right of centerline. Terrain, 75' MSL, 1912' from DER, 1000' right of centerline. Terrain, 89' MSL, 2518' from DER, 1175' left of centerline. **Rwy 14,** trees, 123' MSL, 2624' from DER, 849' right of centerline. Trees, 274' MSL, 1.47 NM from DER, 2467' right of centerline. Trees, 375' MSL, 2.10 NM from DER, 1844' left of centerline. **Rwy 25,** terrain, 57' MSL, 1504' from DER, 903' left of centerline.

WILBUR, WA
WILBUR (2S8)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 13066 (FAA)

DEPARTURE PROCEDURE: **Rwys 2,20,** Use WIPES (RNAV) DEPARTURE.

WORLAND, WY

WORLAND MUNI (WRL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 12264 (FAA)

TAKEOFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA-Environmental. **Rwy 16**, 300-1½ or std. with a min. climb of 212' per NM to 4500.

DEPARTURE PROCEDURE: **Rwy 16,** climb heading 156° to 5000, then climbing right turn direct RLY VOR/DME. Thence … **Rwy 34,** climb heading 336° to 5000, then climbing left turn direct RLY VOR/DME. Thence …

... Continue climb in RLY VOR/DME holding pattern, (hold N, right turns, 159° inbound) to cross RLY VOR/DME at or above the MEA For route of flight.

NOTE: **Rwy 16,** road beginning 267' from DER, 17' right and 51' left of centerline, up to 4348' MSL. Pole 661' from DER, 397' right of centerline, 15' AGL/4287' MSL. Pole 183' from DER, 197' right of centerline, 5' AGL/4273' MSL. Poles beginning 6344' from DER, left and right of centerline, 48' AGL/4421' MSL. Light 10' from DER, 30' left of centerline, 2' AGL/4253' MSL. REIL 40' from DER, 90' right of centerline, 2' AGL/4253' MSL. **Rwy 34,** sign 16' from DER, 200' right of centerline, 1' AGL/4175' MSL. Road 63' from DER, 486' left of centerline, 4182' MSL. Road 86' from DER, 509' left of centerline, 4183' MSL. Tower 288' from DER, 540' right of centerline, 37' AGL/4211' MSL. Antenna on RTR tower 318' from DER, 550' right of centerline, 52' AGL/4226' MSL. rod on DF antenna 327' from DER, 505' left of centerline, 15' AGL/4189' MSL. Pole 483' from DER, 535' right of centerline, 44' AGL/4218' MSL. Trees beginning 700' from DER, 648' right of centerline, up to 64' AGL/4238' MSL.

YAKIMA, WA

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 11013 (FAA)

DEPARTURE PROCEDURE: Use ZILLA DEPARTURE.