



## INSTRUMENT APPROACH PROCEDURE CHARTS

## IFR TAKE-OFF 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 take-off minimums other than standard, are listed below. Take-off 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 described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned another DP or radar vector by ATC, this procedure may be flown to ensure obstacle clearance.

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: FAR 91 prescribes standard take-off rules and establishes take-off 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) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME	TAKE-OFF MINIMUMS
<b>AFTON, WY</b>	
AFTON MUNI	
	TAKE-OFF MINIMUMS: <b>Rwy 16</b> , std. with a min. climb of 405' per NM to 8300. <b>Rwy 34</b> , std. with a min. climb of 330' per NM to 7500.
	DEPARTURE PROCEDURE: <b>Rwy 16</b> , use LUNDI RNAV DEPARTURE. <b>Rwy 34</b> , use AFTON RNAV DEPARTURE.
	NOTE: <b>Rwy 34</b> , tree 1054' from departure end of runway, 605' right of centerline, 50' AGL/6251' MSL. Tree 1703' from departure end of runway, 235' right of centerline, 50' AGL/6269' MSL.

**ALBANY, OR**

ALBANY MUNI  
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, (E, right turns, 261° inbound) to cross CVO VOR/DME at or above 3000.

NAME	TAKE-OFF MINIMUMS
<b>ANACONDA, MT</b>	
BOWMAN FIELD	
	TAKE-OFF MINIMUMS: <b>Rwy 16</b> , 2400-3, or std. with climb gradient of 360' per NM to 7400. <b>Rwy 22</b> , NA.
	DEPARTURE PROCEDURE: <b>Rwys 4, 16</b> , climbing left turn. <b>Rwy 34</b> , climbing right turn. All aircraft continue climb to 9000 via heading 030° and CPN R-346 to GLUES Int.

**ARCO, ID**

ARCO-BUTTE COUNTY  
DEPARTURE PROCEDURE: **Rwy 24**, Use JOBRO TWO DEPARTURE.





## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



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## ARLINGTON, WA

## ARLINGTON MUNI

TAKE-OFF MINIMUMS: **Rwy 11**, 600-2 or std. with a min. climb of 350' per NM to 700. **Rwy 34**, 500-2 or std. with a min. climb of 260' per NM to 700.

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

**Rwy 16**, climb direct to WATON LOM. **Rwys 29,34**, turn left. **All aircraft** climb direct to WATON LOM. Aircraft departing WATON LOM on bearings 150° CW 200° and bearings 260° CW 340° from WATON LOM continue climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 4500 then continue climb on course. Aircraft departing WATON LOM on bearings 200° CW 260° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 1500 then continue climb on course.

## ASTORIA, OR

## ASTORIA REGIONAL

TAKE-OFF 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 northwestbound 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.

## AURORA, OR

## AURORA STATE

DEPARTURE PROCEDURE: **Rwy 17**, turn right, thence... **Rwy 35**, turn left, thence...

...Aircraft proceeding via V23 climb on course; All others climb in UBG VOR/DME holding pattern (hold south, left turn, 003° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight.

NOTE: **Rwy 17**, multiple trees 31' from departure end of runway, 273' right of centerline, up to 90' AGL/270' MSL. Multiple trees beginning 979' from departure end of runway, 247' right of centerline up to 113' AGL/316' MSL. Road 254' from departure end of runway, 350' left of centerline, 16' AGL/209' MSL. **Rwy 35**, multiple trees and road beginning 31' from departure end of runway, 163' left of centerline, up to 138' AGL/329' MSL. Multiple trees beginning 973' from departure end of runway, 281' right of centerline, up to 58' AGL/253' MSL.

## BAKER, MT

## BAKER MUNI

NOTE: **Rwy 13**, 51' derrick 2200' from departure end of runway on centerline. 100' trees south of airport, near runway, various locations. **Rwy 31**, 146' antenna on tower 4000' from departure end of runway, 1800' left of centerline. 114' rod on OL antenna 3800' from departure end of runway on centerline.

## BAKER CITY, OR

## BAKER CITY MUNI

TAKE-OFF MINIMUMS: **Rwy 8**, 900-2 or std. with a min. climb of 315' per NM to 6000, (788' per min. at 150K, 1050' per min. at 200K, 1313' per min. at 250K).

**Rwy 13**, 1400-2 or std. with a min. climb of 310' per NM to 6000 (775' per min. at 150K, 1033' per min. at 200K, 1292' per min. at 250K). **Rwy 17**, NA. **Rwy 31**, 1300-2 or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K). **Rwy 35**, CAT C,D 1000-2; or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K).

DEPARTURE PROCEDURE: **Rwys 8,13**, turn left.

**Rwys 26,31,35**, turn right. **All aircraft** climb direct BKE VOR/DME. Continue climb in BKE holding pattern (SE, right turns, 298° inbound) to cross BKE VOR/DME at or above MCA or MEA for route of flight.

## BELLINGHAM, WA

## BELLINGHAM INTL

TAKE-OFF MINIMUMS: **Rwy 16**, 1800-2 or std. with a min. climb of 260' per NM to 2300.

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

**Rwy 34**, turn left. **All aircraft** climb direct HUH VORTAC. Aircraft departing on HUH R-136 CW R-270 climb on course. All others continue climb in holding pattern (NW, left turns, 149° inbound) to cross HUH VORTAC at or above: R-271 CW R-045 4000; R-046 CW R-135 10000.

## BEND, OR

## BEND MUNI

DEPARTURE PROCEDURE: **Rwys 16,34**, turn left.

**All aircraft** climb direct DSD VORTAC. Continue climb on R-171 within 10 NM to cross DSD VORTAC at or above: DSD R-180 CW R-255 8000; or R-290 CW R-310 8000; all others 5000.

## BIG PINEY, WY

## BIG PINEY-MARBLETON

TAKE-OFF 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

TAKE-OFF MINIMUMS: **Rwy 10L**, 700-2 or std. with a min. climb of 260' per NM to 4500.

## BLACKFOOT, ID

## MCCARLEY FIELD

DEPARTURE PROCEDURE: **Rwy 1**, climb to 7000 (or higher assigned altitude) direct IDA VOR/DME, before proceeding on course. **Rwy 19**, climb to 7000 (or higher assigned altitude) direct PIH VORTAC, before proceeding on course.

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## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



NW-1



## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



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**BOISE, ID**

BOISE AIR TERMINAL (GOWEN FIELD)

DEPARTURE PROCEDURE: **Rwys 28L, 28R**, turn left **Rwys 10L, 10R**, turn right. Climb on BOI R-214 within 20 NM to cross BOI VORTAC at or above MEA/MCA for direction of flight.

**BOZEMAN, MT**

GALLATIN FIELD

TAKE-OFF MINIMUMS: **Rwys 3, 21**. NA.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn heading 340°. **Rwy 30**, climbing left turn heading 275°. **All aircraft**, climb via BZN R-284. Aircraft departing westbound via V343 climb on course, all others continue climb to 8000, then climbing left turn direct BZN VOR/DME to cross at or above MCA or MEA for route of flight.

ALTERNATE DEPARTURE PROCEDURE: (BZN VOR/DME OTS) **Rwy 12**, climbing right turn direct MANNI LOM. **Rwy 30**, climbing left turn direct MANNI LOM. **All aircraft**, climb in MANNI LOM holding pattern (NW, right turns, 118° inbound) to radar contact or 8500 or above MCA or MEA for route of flight.

NOTE: **Rwy 12**, antenna 972' from departure end of runway, 3216' right of centerline, 174' AGL/4627' MSL.

**BREMERTON, WA**

BREMERTON NATIONAL

TAKE-OFF MINIMUMS: **Rwys 16, 34**, NA. **Rwy 1, 19**, 600-1 or std. with a min. climb of 400' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 1**, turn right.

**Rwy 19**, climb runway heading. Proceed direct CAN NDB and continue climb in holding (S, left turns, 013° inbound) to cross CAN NDB at or above: 093° CW 123' bearing from CAN NDB 6000; all others 4100 before proceeding on course.

**BUFFALO, WY**

JOHNSON COUNTY

TAKE-OFF MINIMUMS: Northbound aircraft:

**Rwys 13, 31**, 2400-2 or std. with a min. climb of 300' per NM to 7500. Southbound aircraft: **Rwy 31**, 400-2 or std. with a min. climb of 300' per NM to 6000.

DEPARTURE PROCEDURE: Northbound aircraft:

**Rwy 13**, turn left. **Rwy 31**, climb straight ahead. **All aircraft** proceed via SHR R-139 to SHR VORTAC. Southbound aircraft: **Rwy 13**, climb straight ahead. **Rwy 31**, turn right. **All aircraft** proceed via CZIR-319 to CZI VOR/DME.

**BURLEY, ID**

BURLEY MUNI

TAKE-OFF MINIMUMS: **All runways**, cross departure end of runway at or above 35' AGL.

DEPARTURE PROCEDURE: **All runways**, climb direct BURLEY (BYI) VOR/DME. Continue climb on R-305 within 10 miles to cross BYI VOR/DME: R-024 CW R-054 at or above 5500; R-055 CW R-240 at or above 8000; R-241 CW R-023 at or above 5900.

NOTE: **Rwy 2**, bridge 252' from departure end of runway, 513' left of centerline, 110' AGL/4195' MSL. Stack 2205' from departure end of runway, 857' right of centerline, 79' AGL/4236' MSL. Elevator 4092' from departure end of runway, 297' right of centerline, 133' AGL/4283' MSL. **Rwy 20**, antenna 523' from departure end of runway, 338' right of centerline, 43' AGL/4217' MSL. **Rwy 24**, tree 630' from departure end of runway, 521' right of centerline, 41' AGL/4215' MSL. Grain elevator 3106' from departure end of runway, 163' left of centerline, 137' AGL/4317' MSL.

**BURLINGTON/MOUNT VERNON, WA**

SKAGIT REGIONAL

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 340' per NM to 3600. **Rwy 10**, 1700-2 or std. with a min. climb of 245' per NM to 2300. **Rwy 22**, 1300-2 or std. with a min. climb of 210' per NM to 1800.

DEPARTURE PROCEDURE: **Rwys 4, 10, 22**, turn right heading 280°. **Rwy 28**, climb runway heading.

**All aircraft** climb to 2500 then turn right direct BVS NDB to cross BVS at or above 4500. Aircraft departing on BVS R-145 CW R-330 climb on course. All others continue climbing in BVS holding pattern (NW, right turns 113° inbound) to cross BVS at or above 6800 before proceeding on course.

**BURNS, OR**

BURNS MUNI

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 departure end of runway, 357' left of centerline, 20' AGL/4169' MSL.

**BUTTE, MT**

BERT MOONEY

TAKE-OFF MINIMUMS: **Rwy 11**, NA. **Rwy 15**, 1800-3. CAT A, B only. CAT C, D, NA. **Rwy 29**, 700-2. **Rwy 33**, 1500-3 or std. with a min. climb of 285' per NM to 7000.

DEPARTURE PROCEDURE: **Rwy 15**, climb to 6000 then climbing right turn direct CPN VOR/DME. Continue climb in holding pattern (N, left turns, 166° inbound) to cross CPN VOR/DME at or above MCA or MEA for route of flight. **Rwys 29, 33**, climb to 6000 then climbing left turn direct CPN VOR/DME. Continue climb in holding pattern (N, left turns, 166° inbound) to cross CPN VOR/DME at or above MCA or MEA for route of flight.

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## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



NW-1

**CALDWELL, ID****CALDWELL INDUSTRIAL**

TAKE-OFF 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 departure end of runway, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from departure end of runway, 877' right of centerline, up to 100' AGL/2505' MSL. **Rwy 30**, multiple poles 206' from departure end of runway, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from departure end of runway, 246' right of centerline, 21' AGL/2439' MSL.

**CASPER, WY****NATRONA COUNTY INTL**

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

All other runways, turn right. All aircraft climb direct DDY VORTAC before proceeding on course, or comply with published Casper SIDs.

**CHEHALIS, WA****CHEHALIS-CENTRALIA**

DEPARTURE PROCEDURE: **Rwy 16**, climb to 1000 via heading 160° then climbing left turn to 4000 via heading 001° and OLMR-151 to OLM VORTAC before proceeding on course. **Rwy 34**, climb to 4000 via heading 340° and OLMR-176 to OLM VORTAC before proceeding on course.

**CHEYENNE, WY****CHEYENNE REGIONAL/JERRY OLSON FIELD**

NOTE: **Rwy 13**, multiple trees beginning 74' from departure end of runway, 115' left of centerline, up to 40' AGL/6166' MSL. Multiple trees, pole, and fence beginning 34' from departure end of runway, 167' right of centerline, up to 40' AGL/6154' MSL. **Rwy 27**, multiple trees and poles beginning 525' from departure end of runway, 271' left of centerline, up to 40' AGL/6216' MSL. Multiple trees and poles beginning 1222' from departure end of runway, 275' right of centerline, up to 40' AGL/6211' MSL. **Rwy 31**, multiple trees, road, fence and sign beginning 196' from departure end of runway, 76' left of centerline, up to 40' AGL/6238' MSL. Multiple poles and sign beginning 407' from departure end of runway, 8' left of centerline, up to 69' AGL/6229' MSL.

**CODY, WY****YELLOWSTONE REGIONAL**

TAKE-OFF MINIMUMS: **Rwy 4**, 1500-2 or std. with a min. climb of 250' per NM to 6800. **Rwy 22**, 1600-2 or std. with a min. climb of 340' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 4, 22**, turn left.

All aircraft climb direct COD VOR/DME. Climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above: COD R-350 CW R-170, 6000; or R-171 CW R-349, 11800.

**COEUR D'ALENE, ID****COEUR D'ALENE AIR TERMINAL**

TAKE-OFF MINIMUMS: **Rwy 5**, CAT A,B, 1700-2 or std. with a min. climb of 230' per NM to 4000. CAT C,D, 2600-2 or std. with a min. climb of 320' per NM to 5400. DEPARTURE PROCEDURE: **Rwys 1,5**, turn left, climb via COE R-005 to 5400, reverse course, continue climb direct COE VOR. **Rwy 19**, turn right. **Rwy 23**, turn left, climb via COE R-232 to 5000, reverse course, continue climb direct COE VOR.

**COLSTRIP, MT****COLSTRIP**

TAKE-OFF MINIMUMS: **Rwy 6** use SACTI RNAV DEPARTURE. **Rwy 24**, use LAWTN RNAV DEPARTURE.

**CONRAD, MT****CONRAD**

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

**CORVALLIS, OR****CORVALLIS MUNI**

TAKE-OFF MINIMUMS: **Rwys 9,17,35**, std. with a min. climb of 290' per NM to 3100 or 1700-3 for climb in visual conditions. **Rwy 27**, std. with a min. climb of 310' per NM to 3100 or 1700-3 for climb in visual conditions. DEPARTURE PROCEDURE: **Rwys 9,17**, climbing left turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400. **Rwys 27,35**, climbing right turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400. ...climb in CVO VOR/DME holding pattern (E, RT, 261° inbound) to depart at or above 3400.

NOTE: **Rwy 9**, multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL. Multiple trees and railroad beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL. **Rwy 27**, obstruction light on glideslope 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL. **Rwy 35**, multiple trees beginning 470' from departure end of runway, 544' left of centerline up to 36' AGL/276' MSL.





**COWLEY/LOVELL/BYRON, WY**

NORTH BIG HORN COUNTY

DEPARTURE PROCEDURE: **Rwys 9, 27**, aircraft departing via HCY NDB bearings 130° CW 225° climb on course, all others climb in HCY NDB holding pattern (W, right turns, 078° inbound) to cross HCY NDB at or above 9000.

**DEER PARK, WA**

DEER PARK

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 360' per NM to 5600.  
 DEPARTURE PROCEDURE: **Rwy 16**, climb runway heading; **Rwy 22**, climbing left turn to heading 130°; **Rwys 4, 34**, climbing right turn to heading 210°; **All aircraft** intercept and continue climb via the 170° bearing from DPY NDB to intercept GEG R-006 to GEG VORTAC.

**DILLON, MT**

DILLON

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA.  
 DEPARTURE PROCEDURE: **Rwys 16, 34**, turn right, climb in DLN VOR/DME holding pattern (N, right turns, 185° inbound) to cross DLN VOR/DME at or above; northwestbound V257 8500; southwestbound V121 8500; northbound V21 7600; southeastbound V21, V257 9400.

**DOUGLAS, WY**

CONVERSE COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 300-2 or std. with a min. climb of 250' 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 departure end of runway, 549' right of centerline, 35' AGL/5014' MSL. Trees 3407' from departure end of runway, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from departure end of runway, 1954' right of centerline, 35' AGL/5132' MSL. **Rwy 23**, trees 2068' from departure end of runway, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from departure end of runway, 1215' left of centerline, 35' AGL/5014' MSL.

**DRIGGS, ID**

DRIGGS-REED MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 3**, std. with a min. climb of 310' per NM to 8400. **Rwy 21**, std. with a min. climb of 280' per NM to 8400.  
 DEPARTURE PROCEDURE: Use LAMON DEPARTURE.

**ELLENSBURG, WA**

BOWERS FIELD

TAKE-OFF 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.

**EPHRATA, WA**

EPHRATA MUNI

TAKE-OFF MINIMUMS: **Rwy 29**, 1300-2.  
 DEPARTURE PROCEDURE: **Rwys 11, 16, 20**, turn left. **Rwys 29, 34**, turn right. **All runways** climb direct EPH VORTAC before proceeding on course. **SPECIAL DEPARTURE RUNWAY 20**: Climbing left turn to heading 160°, intercept EPH R-182. Continue climb southbound to intercept V357, V2 or V448.

**EUGENE, OR**

MAHLON SWEET FIELD

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 1000 then climbing right turn... **Rwys 34L, 34R**, climb to 1000 then climbing left turn...  
 ...all aircraft climb direct EUG VORTAC, then climb in EUG VORTAC holding pattern (hold north, right turn, 175° inbound) to cross EUG VORTAC at or above MEA altitude before proceeding enroute.  
 NOTE: **Rwy 16R**, tree 1992' from departure end of runway, 832' left of centerline, 50' AGL/419' MSL. **Rwy 16L**, multiple trees and power poles beginning 872' from departure end of runway, 35' right of centerline, up to 50' AGL/437' MSL, multiple trees and power poles beginning 890' from departure end of runway, 77' left of centerline, up to 50' AGL/433' MSL. **Rwy 34R**, multiple trees beginning 2869' from departure end of runway, 186' right of centerline, up to 50' AGL/447' MSL. Tree 2535' from departure end of runway, 652' left of centerline, 50' AGL/428' MSL.

**EVANSTON, WY**

EVANSTON-UINTA COUNTY BURNS FIELD

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.  
 NOTES: **Rwy 5**, rod on rotating beacon 3429' prior to departure end of runway, 789' right of centerline, 51' AGL/7200' MSL. Pole 1488' prior to departure end of runway, 688' right of centerline, 21' AGL/7200' MSL. Ground 1694' prior to departure end of runway, 596' right of centerline, 7183' MSL. Pole 160' from departure end of runway, 350' right of centerline, 18' AGL/7137' MSL. **Rwy 23**, rod on rotating beacon 3870' prior to departure end of runway, 789' left of centerline, 51' AGL/7200' MSL. Bush 328' from departure end of runway, 164' left of centerline, 5' AGL/7172' MSL.

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## EVERETT, WA

## SNOHOMISH COUNTY (PAINE FIELD)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 353' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 11, 16L/R**, climbing right turn, thence...**Rwys 29, 34L/R**, climbing left turn, thence...

...for aircraft departing via V287 west bound, climb via 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 11**, multiple antennas on building, rod on obstruction light, and trees beginning 326' from departure end of runway, 387' right of centerline, up to 85' AGL/664' MSL. Tree 1156' from departure end of runway, 600' left of centerline, 93' AGL/672' MSL. **Rwy 16L**, multiple trees and pole beginning 588' from departure end of runway, 220' left of centerline, up to 118' AGL/697' MSL. Multiple trees, pole, and building beginning 449' from departure end of runway, 162' right of centerline, up to 78' AGL/657' MSL. **Rwy 16R**, multiple trees beginning 1228' from departure end of runway, 168' left of centerline, up to 140' AGL/699' MSL. Multiple trees beginning 707' from departure end of runway, 158' right of centerline, up to 118' AGL/687' MSL. **Rwy 29**, multiple trees beginning 45' from departure end of runway, 66' left of centerline, up to 111' AGL/630' MSL. Multiple trees beginning 343' from departure end of runway, 44' right of centerline, up to 110' AGL/689' MSL. **Rwy 34R**, multiple trees and pole beginning 3340' from departure end of runway, 180' right of centerline, up to 95' AGL/674' MSL. Tree 5762' from departure end of runway, 221' left of centerline, 103' AGL/682' MSL.

## FAIRCHILD AFB (KSKA)

## SPOKANE, WA

Rwy 23, climb runway heading until 3100 prior to turning left. Rwy 5, radar vectors required for right turns below 5600.

## FORT BRIDGER, WY

## FORT BRIDGER

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

TAKE-OFF MINIMUMS: **Rwy 34**, 500-1.  
DEPARTURE PROCEDURE: Aircraft departing FHR NDB **Rwy 34**, climbing right turn direct FHR NDB, then climb on course. All other aircraft climb on course.

## GILLETTE, WY

## GILLETTE-CAMPBELL COUNTY

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 255' per NM to 5500, or 1100-3 for climb in visual conditions. **Rwy 21**, std. with a min. climb of 405' per NM to 5600, or 1100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 3**, climb via heading 026° to 4800 then climbing left turn via heading 180° and GCC VOR/DME R-301 to GCC VOR/DME, thence...**Rwy 16**, climb via heading 158° to 4800 then climbing left turn via heading 340° and GCC VOR/DME R-067 to GCC VOR/DME, thence...or climb in visual conditions to cross GCC VOR/DME at or above 5300, thence...**Rwy 21**, climb via heading 206° to 4800 then climbing right turn via heading 026° and GCC VOR/DME R-106 to GCC VOR/DME, thence...or climb in visual conditions to cross GCC VOR/DME at or above 5300, thence...**Rwy 34**, climb via heading 338° to 4800 then climbing right turn via heading 158° and GCC VOR/DME R-068 to GCC VOR/DME, thence...

...continue climb on course to MEA for route of flight.  
NOTE: **Rwy 3**, multiple trees and WSK beginning 1414' from departure end of runway, 43' left of centerline, up to 30' AGL/4394' MSL. **Rwy 21**, fence 328' from departure end of runway, 268' right of centerline, 16' AGL/4352' MSL. Tree 5002' from departure end of runway, 188' left of centerline, 30' AGL/4489' MSL. Multiple trees beginning 5368' right of centerline, 30' AGL/4509' MSL. **Rwy 34**, fence 1236' from departure end of runway, 724' left of centerline, 16' AGL/4380' MSL. Road 1611' from departure end of runway, 717' left of centerline, 15' AGL/4394' MSL. Road 1609' from departure end of runway, 566' left of centerline, 15' AGL/4393' MSL. Road 1610' from departure end of runway, 419' left of centerline, 15' AGL/4380' MSL. Tree 3093' from departure end of runway, 937' right of centerline, 30' AGL/4449' MSL.

## GRANGEVILLE, ID

## IDAHO COUNTY

TAKE-OFF MINIMUMS: **Rwy 7, NA. Rwy 25**, std. with a min. climb of 270' per NM to 5800.  
DEPARTURE PROCEDURE: **Rwy 7, NA. Rwy 25**, use RIDIH ONE RNAV DEPARTURE.

## GRANTS PASS, OR

## GRANTS PASS

TAKE-OFF MINIMUMS: **Rwy 12, NA. Rwy 30**, 4000-3 or std. with a min. climb of 360' per NM to 5000.  
DEPARTURE PROCEDURE: **Rwy 30**, climb via heading 320 until passing 5000, then climbing right turn direct RBG VOR/DME. Cross RBG VOR/DME at or above MEA for route of flight.

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## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



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**GRAY AAF (KGRF)**

FORT LEWIS, WA

..... Rwy 15, 300-1\*  
Rwy 33, 300-1\*\*

\* Or standard with minimum climb of 430/NM to 500.  
\*\* Or standard with minimum climb of 380/NM to 600.  
Rwy 15 climb runway heading to 700 then climbing left turn direct GR LOM. Rwy 33 climb runway heading direct GR LOM. Aircraft departing 330° CW 070° and 135° CW 260° bearing from GR LOM climb on course. All others continue climb in GR holding pattern (Hold NW, RT, 147° inbound) to cross GR LOM at or above: 071° CW 134° bearing from GR LOM, 8500; 261° CW 329° bearing from GR LOM, 1500.

**GREYBULL, WY**

SOUTH BIG HORN COUNTY

DEPARTURE PROCEDURE: **All runways**, for departures on GEY bearings 320° CW 150°, climb in GEY NDB holding pattern to 9000 before departing on course, then continue climb to MEA or assigned altitude. Departures GEY bearings 150° CW 320° climb on course.

**GUERNSEY, WY**

CAMP GUERNSEY

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1 or std. with a min. climb of 320' per NM to 4700. **Rwy 32**, 1400-2 or std. with a min. climb of 320' per NM to 5800.  
DEPARTURE PROCEDURE: **Rwy 14**, climb to 5600 via heading 150°. **Rwy 32**, climb to 5800 via heading 070°. **All aircraft** continue on course.

**HAILEY, ID**

FRIEDMAN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 13**, 2700-3. **Rwy 31**, NA.  
DEPARTURE PROCEDURE: Climbing right turn heading 150° to intercept HLE NDB 160° bearing to HLE NDB. Aircraft departing HLE NDB bearings 030° CW 330° from HLE NDB climb on course. All others continue climbing in HLE NDB holding pattern (SE, left turns, 330° inbound) to cross HLE NDB at or above 8500.

**HAMILTON, MT**

RAVALLI COUNTY

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.

**HAVRE, MT**

HAVRE CITY-COUNTY

DEPARTURE PROCEDURE: **Rwys 3,7**, turn left; **Rwys 21,25**, turn right; climb to 3600 via HVR R-350, then direct HVR VOR/DME to cross HVR VOR/DME at or above 4000. Continue climb on course to MEA for route of flight.

**HELENA, MT**

HELENA REGIONAL

TAKE-OFF MINIMUMS: **Rwy 5**, 1500-2 or std. with a min. climb of 320' per NM to 5800. **Rwy 9**, 1500-2 or std. with a min. climb of 275' per NM to 5700. **Rwy 23**, 1700-2 or std. with a min. climb of 560' per NM to 5800. **Rwy 27**, 1500-2 or std. with min. climb of 320' per NM to 5700. **Rwys 16,34**, NA.  
DEPARTURE PROCEDURE: **Rwys 5,9**, climbing left turn heading 270°. **Rwys 23,27**, climbing right turn heading 020°. **All aircraft** continue climb northwestbound via HLN R-318 to 8000, then climbing right turn direct HLN VORTAC. Cross HLN VORTAC at or above 9000, before proceeding on course.

**HERMISTON, OR**

HERMISTON MUNI

NOTE: **Rwy 4**, tower 379' left of departure end of runway, 50' AGL/698' MSL. **Rwy 22**, light pole 456' left of departure end of runway, 44' AGL/684' MSL.

**HOQUIAM, WA**

BOWERMAN

TAKE-OFF 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.

**IDAHO FALLS, ID**

IDAHO FALLS REGIONAL

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 (S, left turns, 019° inbound) to cross IDA VOR/DME at or above 7500.  
NOTE: **Rwy 2**, trees 1798' from departure end of runway, 457' right of centerline, 80' AGL/4769' MSL. **Rwy 17**, antenna 2561' from departure end of runway, 338' right of centerline, 121' AGL/4847' MSL. **Rwy 20**, pole 2465' from departure end of runway, 632' right of centerline, 56' AGL/4755' MSL. **Rwy 35**, trees 883' from departure end of runway, 676' right of centerline, 80' AGL/4769' MSL.

**JACKSON, WY**

JACKSON HOLE

DEPARTURE PROCEDURE: **Rwy 1**, use GEYSER DEPARTURE. **Rwy 19**, use TETON DEPARTURE.

**JEROME, ID**

JEROME COUNTY

TAKE-OFF MINIMUMS: **Rwy 8**, 1000-2.  
DEPARTURE PROCEDURE: **Rwy 8**, climbing right turn via TWF R-349 to 5000. **Rwy 26**, climb via runway heading to 5000. **All aircraft**: Continue climb on course to MEA for route of flight.

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## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



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**JOHN DAY , OR****GRANT COUNTY REGIONAL/OGILVIE FIELD**

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35, NA, Rwy 27**, 2000-2 or std. with a min. climb of 220' per NM to 6200.

DEPARTURE PROCEDURE: **Rwy 27**, climb runway heading to 4600, then climbing left turn heading 253° to intercept IMB R-100 direct IMB VORTAC, before proceeding on course.

**KALISPELL, MT****GLACIER PARK INTL**

DEPARTURE PROCEDURE: **Rwys 2, 20, 30**, turn left. **Rwy 12**, turn right. Climb direct FCA VOR/DME. Continue climb to 6200 on R-148 FCA VOR/DME, then climbing right turn direct FCA VOR/DME, thence... Climb in FCA holding pattern (SE, left turns, 328° inbound) to cross FCA VOR/DME at or above: southwestbound V448, V536, 7000; eastbound V536, 8300; southeastbound V231, 7000.

**KELSO, WA****KELSO-LONGVIEW**

TAKE-OFF MINIMUMS: **Rwy 12, NA, Rwy 30**, 1200-2 or std. with a min. climb of 320' per NM to 1300.

DEPARTURE PROCEDURE: Departure procedure limited to CAT A, B aircraft. **Rwy 30**, climb straight ahead to 1500 then climbing right turn direct LSO NDB. Continue climb in holding pattern (N, right turns, 171° inbound) to cross LSO NDB at or above 3000 direct BTG VORTAC or MEA for route of flight.

**KEMMERER, WY****KEMMERER MUNI**

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28, NA, Rwy 34**, 2000-3 or std. with a min. climb of 270' per NM to 9900.

DEPARTURE PROCEDURE: **Rwy 16**, climb via runway heading to 8200 then climbing left turn to 12,000 (or assigned altitude) direct FBR VOR/DME, then via assigned route/fix. **Rwy 34**, climb via runway heading to 8200 then climbing right turn to 12,000 (or assigned altitude) direct FBR VOR/DME, then via assigned route/fix.

**KLAMATH FALLS, OR****KLAMATH FALLS**

TAKE-OFF MINIMUMS: **Rwy 7, NA, Rwy 14**, 1100-3 or std. with a min. climb of 275' per NM to 5500. **Rwy 25**, 3300-3 or std. with a min. climb of 250' per NM to 7400. **Rwy 32**, 2000-3 or std. with a min. climb of 320' per NM to 6300.

DEPARTURE PROCEDURE: **Rwys 14, 25**, climb via runway heading to 6000 then climbing right turn direct LMT VORTAC, thence... **Rwy 32**, climb via runway heading to 5500 then climbing left turn direct LMT VORTAC, thence... climb in LMT holding pattern (W, right turns, 070° inbound) to cross LMT VORTAC at or above 8000.

**LA GRANDE, OR****LA GRANDE/UNION COUNTY**

TAKE-OFF 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: **Rwy 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**

TAKE-OFF MINIMUMS: **Rwy 16**, 3700-5 or std. with a min. climb of 320' per NM to 8800. **Rwy 34**, 2500-5 or std. with a min. climb of 320' per NM to 8500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn via LKVR-163 to LKV VORTAC. **Rwy 34**, climbing left turn heading 320° to intercept LKV R-148 then via LKV R-148 to LKV VORTAC. **All aircraft** continue climbing in the LKV VORTAC holding pattern (NW, right turns, 148° inbound) to MEA for route of flight.

**LARAMIE, WY****LARAMIE REGIONAL**

DEPARTURE PROCEDURE: **Rwy 3**, turn left. **Rwys 12, 21**, turn right. **All aircraft** climb direct LAR VORTAC, continue climb in holding pattern (W, left turns, 107° inbound) to cross LAR VORTAC at or above: westbound V4, 10600. All others cross LAR VORTAC at or above MEA for direction of flight.

**LAUREL, MT****LAUREL MUNI**

TAKE-OFF MINIMUMS: **Rwys 9, 14, 27, 32, NA**. DEPARTURE PROCEDURE: **Rwy 22**, turn left. **All aircraft** climb direct BIL VORTAC.

**LEWISTON, ID****LEWISTON-NEZ PERCE COUNTY**

DEPARTURE PROCEDURE: **Rwys 8, 11, 26, 29**, 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**

TAKE-OFF MINIMUMS: **Rwy 2**, 1800-2 or std. with a min. climb of 280' per NM to 6900. **Rwy 7, 12**, 900-2 or std. with a min. climb of 220' per NM to 6200. DEPARTURE PROCEDURE: **Rwys 2, 30**, turn left. **Rwys 7, 12, 20**, turn right. **Rwy 25**, 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.

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## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



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## LEXINGTON, OR

## LEXINGTON

TAKE-OFF 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 departure end of runway, 2386' left of centerline, 100' AGL/2159' MSL. Trees 1.48 NM from departure end of runway, 2755' left of centerline, 100' AGL/2179' MSL.

## LIBBY, MT

## LIBBY

TAKE-OFF MINIMUMS: **Rwy 33**, not authorized. **Rwy 15**, use EYESERNAV DEPARTURE.

## LIVINGSTON, MT

## MISSION FIELD

TAKE-OFF MINIMUMS: **Rwys 8, 13, 26, 31**, NA. **Rwy 22**, CAT C, D 3400-3 or std. with a min. climb of 350' per NM to 8400.

DEPARTURE PROCEDURE: **Rwy 4**, turn right. **Rwy 22**, climb to 5500 then climbing right turn direct LVM VORTAC. Aircraft departing eastbound via LVM R-070 climb on course. All others climb to 8000 via LVM R-070 then climbing left turn direct LVM VORTAC, then proceed on course.

## MALMSTROM AFHP (KGFA)

## GREAT FALLS, MT

Diverse Departures not assessed.

## MCCALL, ID

## MCCALL MUNI

TAKE-OFF MINIMUMS: **Rwy 16**, 2800-2 or std. with a min. climb of 210' per NM to 8100. NOTE: Climb gradient required at night. **Rwy 34**, NA.

DEPARTURE PROCEDURE: **Rwy 16**, climb to IOM NDB. Continue climb to 8100 via IOM NDB 150° bearing. Then, aircraft southeastbound on V293 climb on course. All others climbing left turn to 9500 to DNJ VORTAC before proceeding on course.

NOTE: 100' AGL trees 1547' from departure end of runway, 53' left of centerline.

## MC CHORD AFB (KTCM)

## TACOMA, WA

All runways: Cross TCM VORTAC R-055 CW R-085 at or above 10,000 beyond 20 DME cross R-085 CW R-140 at or above 16,500 beyond 15 DME, cross R-140 CW R-175 at or above 6800 beyond 25 DME, cross R-270 CW R-325 at or above 10,000 beyond 35 DME.

TAKE-OFF OBSTACLES: Rwy 34: 62' AGL tree 2270' from departure end of rwy, 1040' left of centerline.

## MCMINNVILLE, OR

## MCMINNVILLE MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 35**, 800-2 or std. with a min. climb of 250' per NM to 1300. **Rwy 17**, 900-2 or std. with a min. climb of 300' per NM to 1300. **Rwy 22**, 900-2 or std. with a min. climb of 260' per NM to 1300.

DEPARTURE PROCEDURE: **Rwy 4**, climb to 1000 via runway heading then climbing left turn direct UBG VORTAC. **Rwy 35**, climb to 1000 via runway heading then climbing right turn direct UBG VORTAC.

**Rwys 17, 22**, climb to 1000 via runway heading then climbing left turn via UBG R-183 to UBG VORTAC.

**All aircraft**, continue climb in UBG VOR/DME holding pattern (S, left turns, 003° inbound) until reaching MEA for route of flight, or 4000 before proceeding on course.

NOTE: **Rwy 4**, cross departure end of runway at or above 35' AGL/195' MSL. **Rwy 17**, cross departure end of runway at or above 35' AGL/197' MSL. **Rwy 22**, cross departure end of runway at or above 35' AGL/196' MSL. Multiple trees 282' from departure end of runway, 562' left of centerline, 100' AGL/229' MSL. Trees 738' from departure end of runway, 446' left of centerline, 100' AGL/228' MSL.

## MEDFORD, OR

## ROGUE VALLEY INTL-MEDFORD

TAKE-OFF MINIMUMS: **Rwy 9**, NA. **Rwy 14**, CAT A, B 1800-3 or std. with a min. climb of 270' per NM to 3100. CAT C, D 3600-3 or std. with a min. climb of 440' per NM to 4900. **Rwy 27**, 2300-3 or std. with a min. climb of 360' per NM to 3600. **Rwy 32**, 1700-3 or std. with a min. climb of 300' per NM to 3000.

DEPARTURE PROCEDURE: **Rwys 14, 27**, climbing right turn direct OED VORTAC. **Rwy 32**, climb direct OED VORTAC. **All aircraft** climb in OED holding pattern (Hold NW, right turns, 153° inbound) to MCA/MEA for route of flight before proceeding on course.

## MISSOULA, MT

## MISSOULA INTL

TAKE-OFF MINIMUMS: **Rwy 7, 25**, NA. **Rwy 11**, 2800-3 or std. with a min. climb of 420' per NM to 6300. **Rwy 29**, CAT A, B 3400-3 or std. with a min. climb of 490' per NM to 5400. CAT C, D 3400-3 or std. with a min. climb of 500' per NM to 7000.

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn heading 220°. **Rwy 29**, climbing left turn heading 110°. **All aircraft** intercept and climb to 7800 via the MSO R-155, then climbing left turn to MSO VOR/DME via MSO R-155. Cross MSO VOR/DME at or above MEA or MCA for route of flight.

## MOUNTAIN HOME AFB (KMUO)

## MOUNTAIN HOME, ID

Rwy 12, depart on course between track 061° CW to 228° from dep end of rwy, or minimum climb of 260/NM to 8700 all other courses. Rwy 30, depart on course between track 260° CW to 352° from dep end of rwy, or minimum climb of 260/NM to 8700 all other courses.

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**MOUNTAIN HOME, ID****MOUNTAIN HOME MUNI**

TAKE-OFF 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 bearing 080° CW 340° climb on course. All others continue climb in hold (E, left turns, 271° inbound) to cross STI NDB at or above 7300.

**NAMPA, ID****NAMPA MUNI**

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 departure end of runway, 90' right of centerline.

**NEWCASTLE, WY****MONDELL FIELD**

TAKE-OFF MINIMUMS: **Rwys 5,17,23,35**, NA. **Rwy 13**, 200-1 or std. with a min. climb of 275' per NM to 4400. **Rwy 31**, 300-1 or std. with a min. climb of 300' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 31**, climbing left turn. All aircraft climb to 5500 via ECS R-143, then climbing right turn direct ECS VOR, continue climb on course.

**NEWPORT, OR****NEWPORT MUNI**

TAKE-OFF MINIMUMS: **Rwy 2**, NA. **Rwy 16**, 500-2 or std. with a min. climb of 310' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 2**, NA. **Rwy 16**, turn right. **Rwy 34**, turn left. 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.

**NORTH BEND, OR****NORTH BEND MUNI**

TAKE-OFF MINIMUMS: **Rwy 4**, 800-2 or std. with a min. climb of 340' per NM to 900. **Rwy 13**, 800-2 or std. with a min. climb of 460' per NM to 400. **Rwy 16**, 800-2 or std. with a min. climb of 260' per NM to 900. **Rwy 31**, 300-2 or std. with a min. climb of 240' per NM to 400.

DEPARTURE PROCEDURE: **Rwys 4,31,34**, turn left. **Rwys 13,16,22**, turn right. All aircraft climb via OTH R-250 to 1300 then climbing right turn direct OTH VORTAC.

**OAK HARBOR, WA****WES LUPIEN**

TAKE-OFF 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 departure end of runway, 212' left of centerline, up to 80' AGL/319' MSL. Multiple trees beginning 664' from departure end of runway, 208' right of centerline, up to 80' AGL/299' MSL. Fence 612' from departure end of runway, right and left of centerline, 10' AGL/229' MSL. Multiple bushes beginning 240' from departure end of runway, 64' left of centerline, up to 8' AGL/227' MSL. **Rwy 25**, cars on road 87' from departure end of runway, left and right of centerline, up to 15' AGL/174' MSL. Multiple trees beginning 2271' from departure end of runway, right and left of centerline, up to 80' AGL/279' MSL.

**OLYMPIA, WA****OLYMPIA**

TAKE-OFF MINIMUMS: **Rwy 17**, 300-1 or std. with a min. climb of 350' per NM to 600. **Rwy 26**, 1600-2 or std. with a min. climb of 320' per NM to 2100.

DEPARTURE PROCEDURE: **Rwy 8**, turn left.

**Rwys 17,26**, turn right. All aircraft climb via OLM R-351 within 10 NM to cross OLM VORTAC at or above 4000. Aircraft departing OLM R-085 CW R-065 climb on course. All others continue climb in holding pattern (S, left turns, 356° inbound) to cross OLM VORTAC at or above 7300.

NOTE: **Rwy 8**, 351' tree 3200' from departure end of runway, 170' right of centerline. **Rwy 35**, 278' tree 400' from departure end of runway, 600' right of centerline.

**OMAK, WA****OMAK**

TAKE-OFF MINIMUMS: **Rwy 17**, 2200-2 or std. with a min. climb of 300' per NM to 4200. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use GETNG RNAV DEPARTURE. **Rwy 35**, NA.

**ONTARIO, OR****ONTARIO MUNI**

DEPARTURE PROCEDURE: **Rwy 32**, turn right. All aircraft climb in ONO holding pattern (SE, right turns, 335° inbound) to cross ONO NDB at or above MEA for direction of flight.

**PASCO, WA****TRI-CITIES**

DEPARTURE PROCEDURE: All runways, climb runway heading to 1000, thence... **Rwy 12**, turn left. All others turn right. All aircraft climb direct PSC VOR/DME before proceeding on course.

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## PENDLETON, OR

EASTERN OREGON REGIONAL AT  
PENDLETON

DEPARTURE PROCEDURE: Climb direct PDT  
VORTAC. Aircraft departing on PDT R-095 CW R-210  
continue climb in PDT holding pattern (W, left turns,  
073° inbound) to cross PDT VORTAC at or above 2500.

## PINEDALE, WY

RALPH WENZ FIELD

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb  
of 265' per NM to 8300, or 4900-3 for climb in visual  
conditions.  
DEPARTURE PROCEDURE: **Rwy 11**, climb via  
heading 110° to 8100, then climbing right turn to 10000  
via BPI VOR/DME R-053 to BPI VOR/DME before  
proceeding on course. **Rwy 29**, climb via heading 290°  
to 8300, then climbing left turn to 10000 via BPI  
VOR/DME R-356 to BPI VOR/DME before proceeding  
on course... or climb in visual conditions to cross Ralph  
Wenz Field at or above 11800 before proceeding on  
course.

## POCATELLO, ID

POCATELLO REGIONAL

TAKE-OFF MINIMUMS: **Rwy 17**, NA-obstacles.  
DEPARTURE PROCEDURE: **Rwys 3, 35**, climbing left  
turn direct PIH VORTAC. Aircraft departing PIH  
VORTAC R-235 CW to R-016 climb on course. All  
others continue climb via PIH R-235 to 6300 then  
climbing right turn direct PIH VORTAC. **Rwy 21**,  
climbing right turn direct PIH VORTAC. Aircraft  
departing PIH VORTAC R-235 CW to R-016 climb on  
course. All others continue climb via PIH R-235 to 6300  
then climbing right turn direct PIH VORTAC.  
NOTE: **Rwy 3**, rod on obstruction light 978' from  
departure end of runway, 758' right of centerline, 40'  
AGL/4486' MSL. **Rwy 21**, obstruction light 542' from  
departure end of runway, 285' left of centerline, 7' AGL/  
4462' MSL. **Rwy 35**, electrical equipment 200' from  
departure end of runway, 248' left of centerline, 10' AGL/  
4454' MSL.

## POLSON, MT

POLSON

TAKE-OFF MINIMUMS: **Rwy 18**, N/A-extremely  
precipitous terrain. **Rwy 36**, standard with a min. climb  
of 270' per NM to 8400'.  
DEPARTURE PROCEDURE: **Rwy 36**, Use ANGIL  
RNAV DEPARTURE.  
NOTES: **Rwy 36**, Road 509' from departure end of  
runway, 2955' MSL. Trees 2.39 NM from departure end  
of runway, 3383' left of centerline, 100' AGL/3179 MSL.  
Rapidly rising precipitous terrain left and right of  
centerline running along southern Flathead River  
ridges.

## PORT ANGELES, WA

PORT ANGELES CGAS

DEPARTURE PROCEDURE: Copter departure, climb  
from landing area direct to EDIZ HOOK NDB. Continue  
climb in holding pattern (NE, right turns, 237° inbound)  
to MEA for direction of flight.

## WILLIAM R FAIRCHILD INTL

TAKE-OFF MINIMUMS: **Rwy 13**, 900-2. **Rwy 8**,  
300-1 or std. with a min. climb of 325' per NM to 600.  
DEPARTURE PROCEDURE: **Rwys 8, 13, 31**, climbing  
left turn. **Rwy 26**, climb straight ahead, direct to ELWHA  
LOM. Continue climb in holding pattern (W, left turns,  
083° inbound) to MEA for direction of flight.

## PORTLAND, OR

PORTLAND INTL

TAKE-OFF MINIMUMS: **Rwys 10L, 10R**, 1900-2 or std.  
with a min. climb of 250' per NM to 2400. **Rwy 3**, 500-2  
or std. with a min. climb of 300' per NM to 500. **Rwy 21**,  
1200-2 or std. with a min. climb of 310' per NM to 1500.  
DEPARTURE PROCEDURE: **Rwys 3, 10L, 10R**, turn left.  
**Rwys 21, 28L, 28R**, turn right. All aircraft climb direct  
BTG VORTAC. Aircraft departing BTG R-131 CW  
R-339, climb on course. All others climb in BTG  
VORTAC holding pattern (NW, right turns, 149°  
inbound) to cross BTG VORTAC at or above 7000.

## PORTLAND-HILLSBORO

TAKE-OFF MINIMUMS: **Rwy 30**, 200-1¼ or std. with a  
min. climb of 223' per NM to 500. Alternatively, with  
standard take-off minimums and a normal 200'/NM climb  
gradient, take-off must occur no later than 1600' prior to  
departure end of runway.  
DEPARTURE PROCEDURE: **Rwy 12**, climbing right  
turn direct UBG VOR/DME... **Rwys 2, 20, 30**, climbing  
left turn direct UBG VOR/DME...  
...all aircraft climb in UBG VOR/DME holding pattern  
(west, right turn, 108° inbound) to cross UBG VOR/  
DME at or above MEA/MCA for direction of flight before  
proceeding on course.  
NOTE: **Rwy 2**, multiple roads beginning 246' from  
departure end of runway, 3' right of centerline, up to 15'  
AGL/220' MSL. **Rwy 12**, multiple trees beginning 1842'  
from departure end of runway, 222' left of centerline, up  
to 125' AGL/324' MSL. Multiple trees beginning 3629'  
from departure end of runway, 46' right of centerline, up  
to 143' AGL/332' MSL. **Rwy 20**, multiple trees and pole  
beginning 967' from departure end of runway, 118' left of  
centerline, up to 93' AGL/292' MSL. Vent of hangar 63'  
from departure end of runway, 428' left of centerline, 26'  
AGL/225' MSL. Multiple trees and antenna on building  
beginning 965' from departure end of runway, 449' right  
of centerline, up to 74' AGL/273' MSL. **Rwy 30**, multiple  
trees beginning 1664' from departure end of runway,  
623' right of centerline, up to 194' AGL/363' MSL. Pole  
702' from departure end of runway, 603' left of centerline,  
26' AGL/215' MSL.

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## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



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## PORTLAND, OR (CON'T)

## PORTLAND-TROUTDALE

TAKE-OFF 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 CWR-115 5000; all others 2500.

## POWELL, WY

## POWELL MUNI

TAKE-OFF MINIMUMS: **Rwy 3, 16, 21, 34**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, turn right.

**Rwy 31**, turn left. **All aircraft** climb direct COD VOR/DME. Aircraft departing COD R-350 CW R-170 climb on course. All others continue climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above 8800

## PRINEVILLE, OR

## PRINEVILLE

TAKE-OFF MINIMUMS: **Rwy 10**, 2500-3 or std. with a min. climb of 380' per NM to 5700. **Rwys 15, 28**, 2500-3, or std. with a min climb of 400' per NM to 6000.

**Rwy 33**, CAT C/D NA. CAT A/B, 2500-3 or std. with a min. climb of 380' per NM to 6000.

DEPARTURE PROCEDURE: **All aircraft** climb direct BODEY LOM. Continue climb in BODEY holding pattern (W, right turns, 083° inbound) to cross BODEY LOM at or above 6000, then climb on course.

## PULLMAN-MOSCOW, WA

## PULLMAN-MOSCOW REGIONAL

TAKE-OFF MINIMUMS: **Rwy 5**, 300-1½ with a min. climb of 278' per NM to 4400, or 4600-3 for climb in visual conditions. **Rwy 23**, 300-1 or std. with a min. climb of 361' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn direct PUW VOR/DME, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions; cross Pullman-Moscow Regional at or above 4500. **Rwy 23**, climbing left turn via PUW VOR/DME R-021, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: **Rwy 5**, multiple trees and terrain left and right of centerline, beginning 614' from departure end of runway, 424' right of centerline up to 50' AGL/2677' MSL.

Terrain 3503' from departure end of runway, 770' left of centerline, 50' AGL/2608' MSL. **Rwy 23**, multiple trees, terrain, fences, poles, and tanks beginning 669' from departure end of runway, 412' right of centerline, up to 52' AGL/2769' MSL.

## PUYALLUP, WA

## PIERCE COUNTY-THUN FIELD

TAKE-OFF MINIMUMS: **Rwy 16, 34**, 300-1.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn. **Rwy 34**, climb runway heading. **All aircraft** climb via SEA R-158 to COTNY INT/SEA 18.1 DME. Continue in COTNY holding pattern (Hold S, left turns, 338° inbound) to depart COTNY at or above: 001° CW 090° 3500, 090° 3500, 091° CW 120° 10,400, 121° CW 170° 2700, 171° CW 360° 1500.

## RAWLINS, WY

## RAWLINS MUNI/HARVEY FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 600-2 or std. with a min. climb of 440' per NM to 7500. **Rwy 22**, 1500-2 or std. with a min climb of 365' per NM to 8700. **Rwys 10, 28**, NA.

DEPARTURE PROCEDURE: **Rwy 4**, turn right. **Rwy 22**, turn left. Climb to 10000 via RWL R-200 and CKW R-080 to CKW VOR/DME then via assigned route. Aircraft departing eastbound V4 or V6 climb via RWL R-200 to assigned route then climb on course.

## REDMOND, OR

## ROBERTS FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 2200-2 or std. with a min. climb of 280' per NM to 5800. **Rwys 22, 28**, 1100-2 or std. with a min. climb of 240' per NM to 4600.

DEPARTURE PROCEDURE: **Rwys 4, 28**, turn left.

**Rwys 10, 22**, turn right. **All aircraft** climb direct DSD VORTAC. Aircraft departing DSD R-310 CW R-180 depart on course. All others continue climbing via DSD R-171 to 7000, then climbing left turn direct DSD VORTAC.

## RENTON, WA

## RENTON MUNI

TAKE-OFF MINIMUMS: **Rwy 15**, std. with a min. climb of 330' per NM to 600. **Rwy 33**, 500-2½ or std. with a min. climb of 270' per NM to 600.

DEPARTURE PROCEDURE: **All aircraft** climb runway heading to 700 thence; **Rwy 15**, climbing right turn. **Rwy 33**, climbing left turn. **All aircraft** climb direct SEA VORTAC, then climb in SEA holding pattern (E, left turns, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight.

## REXBURG, ID

## REXBURG-MADISON COUNTY

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 departure end of runway, 350' left of centerline. **Rwy 35**, 100' AGL trees 350' from departure end of runway, 450' right of centerline. 100' AGL trees 750' from departure end of runway, 500' left of centerline.

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## RICHLAND, WA

## RICHLAND

TAKE-OFF MINIMUMS: **Rwy 19**, 1100-2 or std. with a min. climb of 350' per NM to 1400. **Rwy 25**, 500-2 or std. with a min. climb of 260' per NM to 1000.

DEPARTURE PROCEDURE: **All runways** turn right, climb direct to PSC VOR/DME then climb on course.

## RIVERTON, WY

## RIVERTON REGIONAL

DEPARTURE PROCEDURE: Aircraft departing RIW R-280 CW R-170 climb on course. All others climb to 6600, then continue climb direct RIW VOR/DME to cross RIW VOR/DME at or above 7500 before proceeding on course.

## ROCK SPRINGS, WY

## ROCK SPRINGS-SWEETWATER COUNTY

DEPARTURE PROCEDURE: Climb direct OCS VORTAC. Aircraft departing OCS R-205 CW R-170 climb on course. All others climb in the OCS holding pattern (E, right turns, 260° inbound) to cross OCS VORTAC at or above 7300.

## ROSEBURG, OR

## ROSEBURG REGIONAL

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 642' per NM to 2000, or 1700-3 for climb in visual conditions. **Rwy 34**, std. with a min. climb of 760' per NM to 2000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb direct RBG VOR/DME, or climb in visual conditions to cross Roseburg Airport southbound at or above 2200, then direct RBG VOR/DME. Then via RBG R-157 and right turn direct RBG VOR/DME to cross at or above the MCA or MEA for route of flight. **Rwy 34**, climb via heading 342° to 4000, or climb in visual conditions to cross Roseburg Airport northbound at or above 2200 and then via heading 342° to 4000. Then climbing left turn direct RBG VOR/DME, to cross RBG VOR/DME at or above MCA or MEA for route of flight. Aircraft that have not reached the MCA or MEA for route of flight continue climb via RBG R-157 and right turn direct RBG VOR/DME.

NOTE: **Rwy 16**, tower 1.56 NM from departure end of runway, 2231' right of centerline, 50' AGL/1201' MSL, tree 1.47 NM from departure end of runway, 1560' right of centerline, 21' AGL/980' MSL, tree 1.46 NM from departure end of runway, 1298' right of runway centerline, 45' AGL/964' MSL, pole 1.36 NM from departure end of runway, 921' right of centerline, 75' AGL/914' MSL, rod on airway beacon 1.29 NM from departure end of runway, 409' right of centerline, 52' AGL/891' MSL, tree 655' from departure end of runway, 347' right of runway centerline, 93' AGL/593' MSL, obstruction light on pole 691' from departure end of runway, 187' right of runway centerline, 117' AGL/557' MSL. **Rwy 34**, tree 1.10 NM from departure end of runway, 2003' left of runway centerline, 60' AGL/1179' MSL, tree 5310' from departure end of runway, 1744' left of centerline, 64' AGL/1023' MSL, obstruction light on pole 4850' from departure end of runway, 56' left of centerline, 15' AGL/894' MSL, tree 4785' from departure end of runway, 48' left of rwy centerline, 23' AGL/862' MSL, tree 1.41 NM from departure end of runway, 1826' left of rwy centerline, 17' AGL/896' MSL, tree 4079' from departure end of runway, 508' left of rwy centerline, 21' AGL/780' MSL, tree 5067' from departure end of runway, 265' right of centerline, 43' AGL/802' MSL, tree 4260' from departure end of runway, 345' right of centerline, 42' AGL/761' MSL, tree 1465' from departure end of runway 329' right of rwy centerline, 100' AGL/642' MSL, tree 913' from departure end of runway, 217' right of rwy centerline, 100' AGL/622' MSL, tree 647' from departure end of runway, 345' right of rwy centerline, 100' AGL/615' MSL, hill 1065' MSL 299' right of rwy centerline 608' MSL.

## SALEM, OR

## MCNARY FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 600-2 or std. with a min. climb of 240' per NM to 800. **Rwy 16**, 600-2 or std. with a min. climb of 340' per NM to 800.

DEPARTURE PROCEDURE: Comply with SIDs or; **Rwys 31, 34**, turn right. **Rwy 16**, turn left. **Rwy 13**, climb heading 130°. **All aircraft** climb direct TURN LOM/INT. Continue climb in holding (SE, left turns, 310° inbound) to cross TURN LOM/INT at or above MEA for route of flight.

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**SALMON, ID**

## LEMHU COUNTY

TAKE-OFF 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

TAKE-OFF 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

TAKE-OFF 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 SAANDB then continue climb on course.

**SCAPPOOSE, OR**

## SCAPPOOSE INDUSTRIAL AIRPARK

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 departure end of runway, 499' right of centerline. **Rwy 33**, cross departure end of runway 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from departure end of runway, 414' right of centerline; 142' MSL trees 1343' from departure end of runway, 348' right of centerline.

**SCOBEY, MT**

## SCOBEY

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 280' per NM to 3400.

**SEATTLE, WA**

## BOEING FIELD/KING COUNTY INTL

TAKE-OFF MINIMUMS: **Rwys 13L, 13R**, std. with a min. climb of 380' per NM until 700'. **Rwys 31L, 31R**, std. with a min. climb of 300' per NM to 600'.

DEPARTURE PROCEDURE: **Rwys 13L, 13R**, turn right. **Rwys 31L, 31R**, turn left. **All aircraft** climb direct SEA VORTAC. Climb in SEA holding pattern (E, left turns, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight.

**SEATTLE, WA (CON'T)**

## SEATTLE-TACOMA INTL

TAKE-OFF MINIMUMS: **Rwys 16L, 16R, 34L, 34R**, cross departure end of runway at or above 18' AGL.  
DEPARTURE PROCEDURE: **All aircraft**, climb runway heading to 1000. Thence; **Rwys 34L/R** climbing left turn, **Rwys 16L/R**, climbing right turn, **all aircraft** climb direct SEA VORTAC. Aircraft departing SEA R-310 CW R-014 or R-144 CW R-230 climb on course. All others continue climb in SEA holding pattern (Hold E, left turns, 284° inbound) to cross SEA VORTAC: R-015 CW R-104 and R-231 CW R-309, 2000 or published MCA; R-105 CW R-143, 8200.

**SHELTON, WA**

## SANDERSON FIELD

TAKE-OFF MINIMUMS: **Rwy 23**, 900-2 or std. with a min. climb of 300' per NM to 1300.

DEPARTURE PROCEDURE: **Rwy 5**, turn right. **Rwy 23**, turn left. **All aircraft** climb direct MNC NDB, cross MNC NDB at or above 3200, then climb on course, if not at 3200, climb in MNC NDB holding pattern to 3200 (Hold NE, left turns, 230° inbound) then climb on course.

NOTE: **Rwy 5**, 97' AGL tree 1000' from departure end of runway, 740' right of centerline. **Rwy 23**, 109' AGL tree 1230' from departure end of runway, 540' right of centerline.

**SHERIDAN, WY**

## SHERIDAN COUNTY

TAKE-OFF MINIMUMS: **Rwy 23**, 300-1 or std. with a min. climb of 300' per NM to 4400.

DEPARTURE PROCEDURE: **Rwys 5, 14, 32**, turn left. **Rwy 23**, turn right. **All aircraft** climb direct SHR VORTAC. Aircraft departing SHR R-299 CW R-139 climb on course. All others continue climb in SHR holding pattern (NW, left turns, 119° inbound) to cross SHR VORTAC: R-140 CW R-220, 9100; R-221 CW R-298, 7400.

**SIDNEY, MT**

## SIDNEY-RICHLAND MUNI

TAKE-OFF MINIMUMS: **Rwy 28**, 400-2 or std. with a min. climb of 260' per NM to 2300.

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**SPOKANE, WA****FELTS FIELD**

TAKE-OFF MINIMUMS: **Rwys 3L, 3R**, CAT A, B 600-2 or std. with a min. climb of 310' per NM to 2700. CAT C, D 2600-2 or std. with a min. climb of 525' per NM to 5000.  
DEPARTURE PROCEDURE: **Rwys 3L, 3R**, turn right; **Rwys 21L, 21R**, turn left; Climb via 208° bearing from SFF NDB to GEG R-073, then direct GEG VORTAC, continue climb via GEG R-208 to cross GEG VORTAC at or above MCA or MEA for route of flight.

**SPOKANE INTL**

DEPARTURE PROCEDURE: **All aircraft** climb direct GEG VORTAC. Continue climb via R-208 within 10 miles to cross GEG VORTAC at or above: northeastbound V120-448, 5200; eastbound V2, 5200, southeast thru westbound climb on course.

**STEVENSVILLE, MT****STEVENSVILLE**

TAKE-OFF MINIMUMS: **Rwy 12**, do not exceed 210 knots until established on MSOR-163. **Rwy 30**, do not exceed 210 knots until established on MSOR-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**

TAKE-OFF 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**

TAKE-OFF 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 REGIONAL/  
THE DALLES MUNI**

TAKE-OFF MINIMUMS: **Rwy 2**, CAT A, B 1100-2 or std. with a min. climb of 350' per NM to 1500. CAT C, D 2600-3 or std. with a min. climb of 475' per NM to 3100. **Rwy 7**, 900-3 or std. with a min. climb of 330' per NM to 1200. **Rwy 12**, 1400-3 or std. with a min. climb of 500' per NM to 2000. **Rwy 20**, 1800-3 or std. with a min. climb of 470' per NM to 2200. **Rwy 25**, NA. **Rwy 30**, 2900-3 or std. with a min. climb of 500' per NM to 2700.  
DEPARTURE PROCEDURE: **Rwys 2, 7**, climbing right turn heading 120°. **Rwy 12**, climb via runway heading. **Rwys 20, 30**, climbing left turn heading 120°. **All aircraft** intercept and climb southbound via LTJ R-165 to 3500. Then climbing left turn direct LTJ VORTAC. Continue climb in LTJ holding pattern (E, right turns, 260° inbound) to cross LTJ VORTAC at or above MCA or MEA for route of flight.

**TILLAMOOK, OR****TILLAMOOK**

TAKE-OFF MINIMUMS: **Rwys 1, 13, 19**, NA. **Rwy 31**, 2000-3 or std. with a min. climb of 350' per NM to 4500.  
DEPARTURE PROCEDURE: **Rwys 1, 13, 19**, NA. **Rwy 31**, use FETUJ RNAV DEPARTURE.

**TWIN FALLS, ID****JOSLIN FIELD-MAGIC VALLEY REGIONAL**

TAKE-OFF MINIMUMS: **Rwy 12**, NA.  
DEPARTURE PROCEDURE: Aircraft departing on TWF R-240 CWR R-080 climb on course. All others climb runway heading 6000 then climbing turn direct TWF VORTAC. Climb in holding pattern (NW, right turns, 113° inbound) to MCA or MEA as appropriate for direction of flight.

**VANCOUVER, WA****PEARSON FIELD**

TAKE-OFF MINIMUMS: **Rwy 26**, 600-2 or std. with a min. climb of 220 per NM to 700.  
DEPARTURE PROCEDURE: **Rwy 8**, turn left. **Rwy 26**, turn right. **All aircraft** climb direct BTG VORTAC, continue climb via R-329 BTG VORTAC within 10 NM to cross BTG VORTAC at or above: northeastbound V448, 5500; northeastbound V468, 2600; eastbound V112, 2900.

**WALLA WALLA, WA****WALLA WALLA REGIONAL**

DEPARTURE PROCEDURE: **Rwys 2, 7, 20, 25, 34**, turn left. **Rwy 16**, turn right. **All aircraft** climb to 2500 via 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.  
NOTE: **Rwy 16**, antenna 365' from departure end of runway, 97' right of centerline, 1155' MSL. Terrain 1' from departure end of runway 140' left of centerline, 1145' MSL. **Rwy 20**, light 666' from departure end of runway, 640' left of centerline, 1170' MSL. **Rwy 34**, terrain 213' from departure end of runway, 230' right of centerline, 1130' MSL.

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## WENATCHEE, WA

## PANGBORN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 12**, 1500-2 or std. with a min. climb of 510' per NM to 2900.

**Rwys 25, 30**, CAT A,B 1600-2 or std. with a min. climb of 360' per NM to 3100. CAT C,D 5500-3 or std. with a min. climb of 570' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading. **Rwys 25, 30**, climbing left turn. **All aircraft** climb via EATR-113 to 4000 then climbing left turn direct EAT VOR/DME. Aircraft departing EAT R-010 CW R-140 climb on course. All others continue climb in EAT VOR/DME holding pattern (E, right turns, 253° inbound) to cross EAT VOR/DME at or above: R-141 CWR-2007400; R-201 CW R-009, 8200.

## WEST YELLOWSTONE, MT

## YELLOWSTONE

TAKE-OFF MINIMUMS: **Rwy 19**, 2200-2 or std. with a min. climb of 245' per NM to 8900. FAR 135 AUTH:

**Rwy 1**, ½ mile.

DEPARTURE PROCEDURE: **Rwy 1**, turn right.

**All aircraft** climb direct TARGY LOM. Aircraft departing TARGY LOM on bearing 190° CW 220° climb on course. All others climb south on bearing 190° within 10 NM of TARGY LOM turn left and continue climbing direct TARGY LOM to cross TARGY LOM at or above: bearing 360° CW 190° 9300, bearing 220° CW 360° 10500

WHIDBEY ISLAND NAS (AULT FIELD)  
(NUW)

## OAK HARBOR, WA

Diverse departures auth with the following restrictions by sector:

Military:

**RWY 7**: 345° CW to 060° 500-2 with min climb rate of 310'/NM to 12,800'; 060° CW to 125° std with min climb rate of 250'/NM to 4700; 155° CW to 265° std with min climb rate of 245'/NM to 9700; 315° CW to 345° std with min climb rate of 290'/NM to 1800. \*or std with min climb rate of 430'/NM to 8400.

**RWY 13, 25, 31**: 360° CW to 080° std with min climb rate of 310'/NM to 12,900, 080° CW to 125° std with min climb rate of 225'/NM to 8900; 155° CW to 265° std with min climb rate of 245'/NM to 9700; 330° CW to 360° std with min climb rate of 305'/NM to 1800.

Civil:

**RWY 7**: 345° CW to 060° 500-2 with min climb rate of 350'/NM to 12,800'; 060° CW to 125° std with min climb rate of 260'/NM to 4900; 155° CW to 265° std with min climb rate of 260'/NM to 9700; 315° CW to 345° std with min climb rate of 310'/NM to 1900. \*std not authorized.

**RWY 13, 25, 31**: 360° CW to 080° std with min climb rate of 340'/NM to 12,900, 080° CW to 125° std with min climb rate of 230'/NM to 8900; 155° CW to 265° std with min climb rate of 260'/NM to 9800; 330° CW to 360° std with min climb rate of 330'/NM to 1800.

## WORLAND, WY

## WORLAND MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA.

**Rwy 16**, 300-2 or std. with a min. climb of 230' per NM to 4600.

DEPARTURE PROCEDURE: **All aircraft** climb to 5000, then direct RLY VOR/DME. Aircraft departing RLY R-061 CW R-349 climb on course. All others continue climb in RLY VOR/DME holding pattern (N, right turns, 159° inbound) to cross RLY VOR/DME at or above 7000.

## YAKIMA, WA

YAKIMA AIR TERMINAL/MCALLISTER  
FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, NA. **Rwy 9**, 800-4 or std. with a min. climb of 300' per NM to 5000.

**Rwys 22, 27, 2500-3** or std. with a min. climb of 300' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 4**, NA. **Rwys 9, 22, 27**, Use ZILLA DEPARTURE PROCEDURE.

11 MAY 2006 to 08 JUN 2006

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## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



NW-1