

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
GRAPHIC DEPARTURE PROCEDURES (DP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
SALEM	FOUR	SALEM4.SALEM	THREE	10/20/2011	

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**DP ROUTE DESCRIPTION:**

TAKEOFF RWY 13, 31, 34: CLIMB TO ASSIGNED ALTITUDE AND HEADING BETWEEN 310 CW 130 FROM DEPARTURE END OF RUNWAY, THENCE...  
TAKEOFF RWY 16: CLIMBING LEFT TURN TO ASSIGNED HEADING BETWEEN 340 CW TO 130 FROM DEPARTURE END OF RUNWAY TO ASSIGNED ALTITUDE, THENCE...  
... EXPECT RADAR VECTORS WITH SEATTLE CENTER TO ASSIGNED ROUTE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):**

<u>TRANSITION NAME</u>	<u>TRANSITION COMPUTER CODE</u>	<u>FROM FIX/NAVAID</u>	<u>TO FIX/NAVAID</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>MEA</u>	<u>MOCA</u>	<u>CROSSING ALTITUDE/FIXES</u>
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**PROCEDURAL DATA NOTES:**

NOTE: RADAR REQUIRED.  
NOTE: SEATTLE CENTER WILL ASSIGN MAGNETIC HEADINGS BETWEEN 310 CW 130.  
NOTE: THIS IS A RADAR VECTOR SID ROUTE.  
NOTE: ROUTE DEPICTED IS LOST COMMUNICATIONS PROCEDURES ONLY.

**TAKEOFF MINIMUMS:**

RWY 13: STANDARD WITH MINIMUM CLIMB OF 270 FT PER NM TO 4000.  
RWY 16: STANDARD WITH MINIMUM CLIMB OF 570 FT PER NM TO 2000 OR 400-2 1/2 WITH MINIMUM CLIMB OF 260 FT PER NM TO 4000.  
RWY 31: STANDARD WITH MINIMUM CLIMB OF 230 FT PER NM TO 2500.  
RWY 34: STANDARD WITH MINIMUM CLIMB OF 225 FT PER NM TO 6700.

**TAKEOFF OBSTACLES NOTES:**

**NOTE: RWY 13,** TREE 1515 FT FROM DER, 737 FT LEFT OF CENTERLINE, 262 FT MSL. TREE 3712 FT FROM DER, 952 FT RIGHT OF CENTERLINE, 315 FT MSL. TREES BEGINNING 3831 FT FROM DER, 1104 FT RIGHT OF CENTERLINE, UP TO 339 FT MSL. TREE 4163 FT FROM DER, 590 FT LEFT OF CENTERLINE, 320 FT MSL. TREE 5077 FT FROM DER, 1442 FT RIGHT OF CENTERLINE, 372 FT MSL. TREE 1.9 NM FROM DER, 3300 FT RIGHT OF CENTERLINE, 514 FT MSL.

**NOTE: RWY 16,** TREE, POLES AND TOWER BEGINNING 554 FT FROM DER, 66 FT RIGHT OF CENTERLINE, UP TO 279 FT MSL. TREE 1202 FT FROM DER, 302 FT LEFT OF CENTERLINE, 252 FT MSL. BLDG 1202 FT FROM DER, 66 FT LEFT OF CENTERLINE, 39 FT AGL/255 FT MSL. TREE 1819 FT FROM DER, 780 FT LEFT OF CENTERLINE, 305 FT MSL. TREE 1950 FT FROM DER, 358 FT RIGHT OF CENTERLINE, 285 FT MSL. TREES BEGINNING 3042 FT FROM DER, 216 FT RIGHT OF CENTERLINE, UP TO 426 FT MSL. TREES BEGINNING 4527 FT FROM DER, 273 FT LEFT OF CENTERLINE, UP TO 424 FT MSL. TREES BEGINNING 5227 FT FROM DER, 369 FT RIGHT OF CENTERLINE, UP TO 480 FT MSL. TREE, T-L TWR, AND POLE BEGINNING 1.0 NM FROM DER, 219 FT LEFT OF CENTERLINE, UP TO 495 FT MSL. TREES BEGINNING 1.2 NM FROM DER, 541 FT LEFT OF CENTERLINE, UP TO 534 FT MSL. TREE 1.3 NM FROM DER, 200 FT RIGHT OF CENTERLINE, 569 FT MSL. TREE 1.9 NM FROM DER, 2677 FT RIGHT OF CENTERLINE, 562 FT MSL.

**NOTE: RWY 31,** TREES BEGINNING 1220 FT FROM DER, 480 FT LEFT OF CENTERLINE, UP TO 247 FT MSL. TREE 1709 FT FROM DER, 749 FT LEFT OF CENTERLINE, 251 FT MSL. TREE 2045 FT FROM DER, 802 FT LEFT OF CENTERLINE, 268 FT MSL. TREE 2988 FT FROM DER, 277 FT RIGHT OF CENTERLINE, 270 FT MSL.

**NOTE: RWY 34,** VEHICLE ON ROAD 469 FT FROM DER, 252 FT RIGHT OF CENTERLINE, 208 FT MSL. TREES BEGINNING 1691 FT FROM DER, 229 FT RIGHT OF CENTERLINE, UP TO 265 FT MSL. TREES BEGINNING 3112 FT FROM DER, 340 FT RIGHT OF CENTERLINE, UP TO 282 FT MSL. TREE 3238 FT FROM DER, 330 FT LEFT OF CENTERLINE, 288 FT MSL.

**CONTROLLING OBSTACLES:**

**RWY 13:** 4530 FT MSL AAO 443809.00N/1223422.28W (CG/CTA), 638 FT MSL TREE 445249.96N/1225725.67W (CG).

**RWY 16:** 4530 FT MSL AAO 443809.00N/1223422.28W (CTA/CG), 426 FT MSL TREE 445337.28N/1230025.84W (CG), 569 FT MSL TREE 445243.73N/1230017.24W (CIG), 562 FT MSL TREE 445207.84N/1230052.33W (VIS), 793 FT MSL TREE 445119.28N/1225836.10W (CG), 839 FT MSL TREE 445059.45N/1225834.82W (CG/CTA).



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**RWY 31:** 717 FT MSL TOWER 445629.00N/1230423.00W (CG), 4530 FT MSL AAO 443809.00N/1223422.28W (CG/CTA).

**RWY 34:** 5081 FT MSL AAO 445813.17N/1221838.65W (CG/CTA), 4530 FT MSL AAO 443809.00N/1223422.28W (CG/CTA).

**LOST COMMUNICATIONS PROCEDURES:**

IF NOT IN CONTACT WITH SEATTLE CENTER AFTER REACHING 2000, CONTINUE CLIMB TO ASSIGNED ALTITUDE.

TAKEOFF RWY 13 AND 16: (RWY 16 TURN LEFT ) PROCEED DIRECT TO SL NDB THENCE ON (ASSIGNED ROUTE) (ADF REQUIRED).

TAKEOFF RWY 31 AND 34: (RWY 31 TURN RIGHT ) PROCEED DIRECT TO UBG VOR/DME THENCE ON (ASSIGNED ROUTE).

HELICOPTERS ONLY - RWY 31 AND 34: (RWY 34 TURN LEFT) INTERCEPT AND PROCEED OUTBOUND ON THE SL NDB 313 BEARING TO BREA F INTERSECTION, THENCE ON (ASSIGNED ROUTE) (ADF REQUIRED).

**ADDITIONAL FLIGHT DATA:**

CHART V495 CVO TO UBG.

**AIRPORTS SERVED:**

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
MCNARY FIELD	SALEM	OR

**COMMUNICATIONS:**

CHART COMMUNICATIONS FOR ATIS, GND CON, TWR.

**FIXES AND/OR NAVAIDS:**

CHART THE FOLLOWING FACILITIES: BTG, UBG, CVO, SL NDB, DSD, EUG, ONP, BREA F FIX.

**REMARKS:**

**FLIGHT INSPECTED BY:**

**OFFICE SYMBOL:**

**DATE:**

**DEVELOPED BY:** *Digitally signed by*  
SYLVAN DRAKES **SYLVAN DRAKES**  
Oct 18, 2016

**OFFICE SYMBOL:**

**DATE:**

AJV-5433

08/05/2016

**APPROVED BY:**

LONNIE EVERHART

**OFFICE SYMBOL:**

**DATE:**

AJV-5430

**REQUIRED EFFECTIVE DATE:**

ROUTINE



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**COORDINATED WITH:**

<u>A4A</u>	<u>ALPA</u>	<u>AOPA</u>	<u>APA</u>	<u>HAI</u>	<u>NBAA</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**OTHER:**

ATA, AMGR, SLE ATCT, SEA ARTCC

**CHANGES - REASONS:**

1. CHANGED TAKEOFF MINIMUMS: FROM RWY13, STANDARD WITH MINIMUM CLIMB OF 260 FT PER NM TO 4000 "TO" RWY13, STANDARD WITH MINIMUM CLIMB OF 270 FT PER NM TO 4000 DUE TO REVISED CLIMB GRADIENT; FROM RWY 31, STANDARD WITH MINIMUM CLIMB OF 230 FT PER NM TO 2800 "TO" RWY 31, STANDARD WITH MINIMUM CLIMB OF 230 FT PER NM TO 2500 DUE TO LOWERED MVA; FROM RWY 34, STANDARD WITH MINIMUM CLIMB OF 235 FT PER NM TO 6700 "TO" RWY 34, STANDARD WITH MINIMUM CLIMB OF 225 FT PER NM TO 6700, CLIMB GRADIENT APPEARED TO BE ENTERED IN ERROR.
2. CHANGED DP ROUTE DESCRIPTION FROM TAKEOFF RWY 13, 16, 31, 34: CLIMB ON SPECIFIED TURN AND HEADING, CONTACT SEATTLE CENTER FOR VECTORS TO ASSIGNED ROUTE "TO" TAKEOFF RWY 13, 16, 31, 34: CLIMB TO ASSIGNED ALTITUDE AND HEADING BETWEEN 310 CW 130 FROM DEPARTURE END OF RUNWAY, THENCE...  
... EXPECT RADAR VECTORS WITH SEATTLE CENTER TO ASSIGNED ROUTE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.
3. UPDATED TAKEOFF OBSTACLE NOTES.
4. UPDATED CONTROLLING OBSTACLES.
5. UPDATED LOST COMMUNICATIONS HELICOPTER ONLY PROCEDURES. CHANGED TAKEOFF RWY 13 AND 16 FROM: (RWY 16 TURN LEFT ) PROCEED DIRECT TO SL LOM THENCE ON (ASSIGNED ROUTE) (ADF REQUIRED) "TO" TAKEOFF RWY 13 AND 16 FROM: (RWY 16 TURN LEFT ) PROCEED DIRECT TO SL NDB THENCE ON (ASSIGNED ROUTE) (ADF REQUIRED); SL LOM BEING REMOVED AND STAND ALONE SL NDB (SL) WILL REMAIN.

