

**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.
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<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
YELM	FOUR	YELM4.YELM	THREE	07/21/2016	24 MAY 2018
<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"/>	<input type="checkbox"/>

DP ROUTE DESCRIPTION:

TAKEOFF RWY 17: TURN LEFT, CLIMB HEADING 064.00 TO 3000, THENCE...

TAKEOFF RWY 35: TURN RIGHT, CLIMB HEADING 064.00, MAINTAIN 3000 THENCE...

...FOR RADAR VECTORS ON COURSE AND FILED ALTITUDE.

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.

TAKEOFF MINIMUMS:

RWY 8, 26: NA- ATC.

RWY 17: 300-2 WITH MINIMUM CLIMB OF 210 FT PER NM TO 2200 OR STANDARD WITH MINIMUM CLIMB OF 720 FEET PER NM TO 500.

RWY 35: STANDARD.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 17: TREES BEGINNING 751 FT FROM DER, 658 FT RIGHT OF CENTERLINE, UP TO 281 FT MSL. TREES BEGINNING 1005 FT FROM DER, 634 FT LEFT OF CENTERLINE, UP TO 293 FT MSL. TREES BEGINNING 1160 FT FROM DER, 719 FT RIGHT OF CENTERLINE, UP TO 306 FT MSL. TREES BEGINNING 1203 FT FROM DER, 664 FT LEFT OF CENTERLINE, UP TO 298 FT MSL. TREES BEGINNING 1293 FT FROM DER, 681 FT RIGHT OF CENTERLINE, UP TO 331 FT MSL. TREES BEGINNING 1418 FT FROM DER, 70 FT RIGHT OF CENTERLINE, UP TO 340 FT MSL. TREES BEGINNING 1758 FT FROM DER, 221 FT LEFT OF CENTERLINE, UP TO 337 FT MSL. TREES BEGINNING 1820 FT FROM DER, 112 FT LEFT OF CENTERLINE, UP TO 366 FT MSL. TREES BEGINNING 3873 FT FROM DER, 437 FT LEFT OF CENTERLINE, UP TO 377 FT MSL. TREES BEGINNING 3953 FT FROM DER, 3 FT RIGHT OF CENTERLINE, UP TO 370 FT MSL. TREES BEGINNING 4000 FT FROM DER, 23 FT LEFT OF CENTERLINE, UP TO 388 FT MSL. TREE 1.5 NM FROM DER, 2745 FT LEFT OF CENTERLINE, 490 FT MSL.

NOTE: RWY 35: BUILDING 692 FT FROM DER, 620 FT RIGHT OF CENTERLINE, 32 FT AGL/226 FT MSL. TREES BEGINNING 961 FT FROM DER, 652 FT RIGHT OF CENTERLINE, UP TO 266 FT MSL. TREE 1664 FT FROM DER, 912 FT RIGHT OF CENTERLINE, 267 FT MSL. TREES BEGINNING 1714 FT FROM DER, 634 FT RIGHT OF CENTERLINE, UP TO 283 FT MSL. TREES BEGINNING 1940 FT FROM DER, 895 FT RIGHT OF CENTERLINE, UP TO 287 FT MSL. TREES BEGINNING 2175 FT FROM DER, 859 FT LEFT OF CENTERLINE, UP TO 275 FT MSL. TREES BEGINNING 2358 FT FROM DER, 834 FT RIGHT OF CENTERLINE, UP TO 288 FT MSL. TREES BEGINNING 2851 FT FROM DER, 1033 FT RIGHT OF CENTERLINE, UP TO 299 FT MSL. TREES BEGINNING 3025 FT FROM DER, 1046 FT RIGHT OF CENTERLINE, UP TO 315 FT MSL. TREE 3878 FT FROM DER, 702 FT LEFT OF CENTERLINE, 298 FT MSL. TREES BEGINNING 4015 FT FROM DER, 198 FT LEFT OF CENTERLINE, UP TO 313 FT MSL.

CONTROLLING OBSTACLES:

RWY 17: 366 FT MSL TREE 465722.50N/1225419.86W (CLIMB GRADIENT/CLIMB-TO ALTITUDE), 490 FT MSL TREE 465603.97N/1225412.31W (CEILING/VISIBILITY), 1699 FT MSL AAO 465036.14N/1224554.19W (CLIMB GRADIENT WITH CEIL/VIS).

OBSTACLES MANDATING ROUTE DEVELOPMENT: RWY 17, 35: 2041 FT MSL AAO 470032.41N/1230305.13W.

LOST COMMUNICATIONS PROCEDURES:

IF NO CONTACT WITH ATC WITHIN 6 NM OF OLM VORTAC, OR 2 MINUTES AFTER DEPARTURE FOR NON-DME AIRCRAFT. TURN LEFT DIRECT OLM VORTAC. CONTINUE CLIMB IN OLM VORTAC HOLDING PATTERN (HOLD S, LT, 356.00 INBOUND) TO CROSS OLM VORTAC AT OR ABOVE R-086 CW R-064 4200 FEET; R-065 CW R-085 7300 FEET, CONTINUE CLIMB ON ASSIGNED ROUTE.

ADDITIONAL FLIGHT DATA:

CHART: RANIER MOA.

CHART: R-7603.



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YELM	FOUR	YELM4.YELM	THREE	07/21/2016	24 MAY 2018

CHART: TOP ALTITUDE: 3000.

REFERENCE MAG VAR: KOLM 15E EOPOCH YR: 2020.

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
OLYMPIA RGNL	OLYMPIA	WA

COMMUNICATIONS:

SEA APP CON, OLM ATCT.

FIXES AND/OR NAVAIDS:

BTG VORTAC, HQM VORTAC, OLM VORTAC, SEA VORTAC, TOU VORTAC, YKM VORTAC, PAE VOR/DME AND UBG VOR/DME.

REMARKS:

LETTER OF APPROVAL ON FILE FOR CLIMB GRADIENT EXCEEDING 500 FEET PER NM WHEN DEPARTING RWY 17.

THE PROXIMITY OF THE DEPARTURE ROUTE TO R6703 HAS BEEN APPROVED BY ATC.

QUALITY
3
CHECKED

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YELM	FOUR	YELM4.YELM	THREE	07/21/2016	24 MAY 2018

FLIGHT INSPECTED BY:	<i>Digitally signed by</i>	OFFICE SYMBOL:	DATE:
PAUL KOSCHEKA	ADOLFO D URRUTIA	FIOG	12/01/2017
	Dec 20, 2017		

DEVELOPED BY:	<i>Digitally signed by</i>	OFFICE SYMBOL:	DATE:
BEV BORDY (CHRISTINE BAYSE)	ADOLFO D URRUTIA	AJV-5433	08/10/2017
	Dec 20, 2017		

APPROVED BY:	<i>Digitally signed by</i>	OFFICE SYMBOL:	DATE:
PATRICK MULQUEEN	ADOLFO D URRUTIA	AJV-5430	

REQUIRED EFFECTIVE DATE: Dec 20, 2017
ROUTINE

COORDINATED WITH:

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

OTHER:

SEA APP CON, OLM ATCT, ZSE, AIRPORT MANAGER, WESTERN FPT.

CHANGES - REASONS:

1. UPDATED DP ROUTE DESCRIPTION FROM "...CLIMB VIA HEADING 060.00, MAINTAIN 2000." TO "CLIMB HEADING 064.00, MAINTAIN 3000".- MAG VAR UPDATED FROM 19E/1995 TO 15E/2020 AND ATC REQUESTED ALTITUDE.
2. UPDATED RWY 17 TAKEOFF MINIMUMS FROM "300-2 OR STANDARD WITH MINIMUM CLIMB OF 706 FT PER NM TO 600" TO "300-2 OR STANDARD WITH MINIMUM CLIMB OF 720 FEET PER NM TO 500".- 8260.3 AND TARGETS CALCULATIONS.
3. UPDATED TAKEOFF OBSTACLES NOTES.- NEW OBSTACLES.
4. REMOVED "388 MSL TREE 465700.57N/1225418.02W" FROM CONTROLLING OBSTACLES.- OBSTACLE REMOVED FROM DATABASE.
5. UPDATED TOP ALTITUDE NOTE IN ADDITIONAL FLIGHT DATA FROM "CHART: TOP ALTITUDE: 2000" TO "CHART: TOP ALTITUDE: 3000". -ATC REQUESTED ALTITUDE.
6. REMOVED TCM VORTAC FROM FIXES AND/OR NAVAIDS.- ATC REQUEST.
7. UPDATED LOST COMMUNICATIONS PROCEDURE FROM "IF NO CONTACT WITH ATC WITHIN 6 NM OF OLM VORTAC, OR 2 MINUTES AFTER DEPARTURE FOR NON-DME AIRCRAFT. TURN LEFT DIRECT OLM VORTAC. CONTINUE CLIMB IN OLM VORTAC HOLDING PATTERN (HOLD S, LT, 356.00 INBOUND) TO CROSS OLM VORTAC AT OR ABOVE R-088 CW R-064 4000 FEET; R-065 CW R-085 7300 FEET, CONTINUE CLIMB ON ASSIGNED ROUTE" TO "IF NO CONTACT WITH ATC WITHIN 6 NM OF OLM VORTAC, OR 2 MINUTES AFTER DEPARTURE FOR NON-DME AIRCRAFT. TURN LEFT DIRECT OLM VORTAC. CONTINUE CLIMB IN OLM VORTAC HOLDING PATTERN (HOLD S, LT, 356.00 INBOUND) TO CROSS OLM VORTAC AT OR ABOVE R-086 CW R-064 4200 FEET; R-065 CW R-085 7300 FEET, CONTINUE CLIMB ON ASSIGNED ROUTE".- NEW OBSTACLE IN THE CLIMB-IN-HOLD PATTERN.
8. ADDED "REFERENCE MAG VAR: KOLM 15E EPOCH YR: 2020" IN ADDITIONAL FLIGHT DATA. -8260.46.
9. ADDED REMARKS "LETTER OF APPROVAL ON FILE FOR CLIMB GRADIENT EXCEEDING 500 FT PER NM WHEN DEPARTING RWY 17" AND FOR "WAIVER ON FILE FOR DEPARTURE DR SEGMENT EXCEEDING 10NM" AND FOR "THE PROXIMITY OF THE DEPARTURE ROUTE TO R6703 HAS BEEN APPROVED BY ATC"-FOR CLARIFICATION.

12/19/17: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 08/10/17.

1. CHANGED DP ROUTE DESCRIPTION FROM "TAKEOFF RWY 17: TURN LEFT, THENCE..." TO "TAKEOFF RWY 17: TURN LEFT, CLIMB HEADING 064.00 TO 3000, THENCE..."
2. CHANGED DP ROUTE DESCRIPTION FROM "TAKEOFF RWY 35: TURN RIGHT, THENCE..." TO "TAKEOFF RWY 35: TURN RIGHT, CLIMB HEADING 064.00, MAINTAIN 3000, THENCE..."
3. CHANGED DP ROUTE DESCRIPTION FROM "...CLIMB HEADING 064.00, MAINTAIN 3000. EXPECT RADAR VECTORS ON COURSE AND FILED ALTITUDE WITHIN FIVE MINUTES AFTER DEPARTURE" TO "FOR RADAR VECTORS ON COURSE AND FILED ALTITUDE".
4. CHANGED TAKEOFF MINIMUMS RWY 17 FROM "300-2 OR STANDARD WITH MINIMUM CLIMB OF 720 FEET PER NM TO 500" TO "300-2 WITH MINIMUM CLIMB OF 210 FT PER NM TO 2200 OR STANDARD WITH MINIMUM CLIMB OF 720 FT PER NM TO 500".

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YELM	FOUR	YELM4.YELM	THREE	07/21/2016	24 MAY 2018
5. REMOVED REMARK "WAIVER ON FILE FOR DEPARTURE DEAD RECKONING (DR) SEGMENT EXCEEDING 10NM IN LENGTH".					
6. ADDED RWY 17 CONTROLLING OBSTACLE "1699 FT MSL AAO 465036.14N/1224554.19W (CLIMB GRADIENT WITH CEIL/VIS)".					

