

**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SUPERSEDED NUMBER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>
ELMAA	THREE	ELMAA3.ELMAA	TWO	10/15/2015	12 OCT 2017
<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:

RWY 16L: CLIMB HEADING 165 AND SEA R-161 THENCE...

RWY 16C: CLIMB HEADING 161 AND SEA R-161 THENCE...

RWY 16R: CLIMB HEADING 161 AND SEA R-161 THENCE...

...TO CROSS NICHY/5.00 DME/RADAR AT OR ABOVE 3000, THEN RIGHT TURN HEADING 251 TO INTERCEPT SEA R-230 TO ELMAA INT, THEN ON (TRANSITION/ASSIGNED ROUTE), EXPECT REQUESTED ALTITUDE/FLIGHT LEVEL 15NM FROM SEA.

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>
CORVALLIS	ELMAA3.CVO	ELMAA	CVO VOR/DME	161.15 & 160.29 (YYJ R-161 & CVO R-340)	159.02	FL240		
HOQUIAM	ELMAA3.HQM	ELMAA	HQM VORTAC	229.05 (HQM R-049)	32.66	FL180		

PROCEDURAL DATA NOTES:

NOTE: RADAR AND DME REQUIRED.

TAKEOFF MINIMUMS:

TAKEOFF MINIMUMS: RWYS 34L/C/R NA, RWYS 16L/C/R STANDARD.

NOTE: RWY 16L: MINIMUM CLIMB OF 560 FT PER NM TO 3000.

NOTE: RWY 16C: MINIMUM CLIMB OF 515 FT PER NM TO 3000.

NOTE: RWY 16R: MINIMUM CLIMB OF 500 FT PER NM TO 3000.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 16L, TREES BEGINNING 2908 FT FROM DER, 1064 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/476 FT MSL.

NOTE: RWY 16C, TREES BEGINNING 4477 FT FROM DER, 484 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/507 FT MSL.

NOTE: RWY 16R, TREES, ANTENNA ON BUILDING AND LIGHT POLE BEGINNING 488 FT FROM DER, 436 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/507 FT MSL. TREES BEGINNING 1137 FT FROM DER, 587 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/468 FT MSL.

CONTROLLING OBSTACLES:

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWYS 16 L/C/R: 14410 FT MSL TERRAIN 465107.40N/1214521.90W.

LOST COMMUNICATIONS PROCEDURES:**ADDITIONAL FLIGHT DATA:**

CHART: COP ON CVO TRANSITION YYJ 154/CVO 100.

CHART: TOP ALTITUDE: ASSIGNED BY ATC.

AIRPORTS SERVED:AIRPORT NAMECITYSTATE

QUALITY
8
CHECKED

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ELMAA	THREE	ELMAA3.ELMAA	TWO	10/15/2015	12 OCT 2017
SEATTLE-TACOMA INTL			SEATTLE		WA

COMMUNICATIONS:

SEATTLE-TACOMA ATIS, SEATTLE-TACOMA CLNC DEL, SEATTLE-TACOMA DEP CON.

FIXES AND/OR NAVAIDS:**REMARKS:**

ABBREVIATED AMENDMENT.

FLIGHT INSPECTED BY:

BRYAN VEIT

*Digitally signed by***BEV L BORDY**

Aug 01, 2017

OFFICE SYMBOL:

FICO

DATE:

6/27/17

DEVELOPED BY:

SYLVAN DRAKES

*Digitally signed by***SYLVAN DRAKES**

May 22, 2017

OFFICE SYMBOL:

AJV-5433

DATE:

04/26/2017

APPROVED BY:

PATRICK MULQUEEN

*Digitally signed by***BEV L BORDY**

Aug 01, 2017

OFFICE SYMBOL:

AJV-5430

DATE:**REQUIRED EFFECTIVE DATE:**

ROUTINE.

COORDINATED WITH:**A4A****ALPA****AOPA****APA****HAI****NBAA****OTHER:**

ZSE, SEA APCH, SEA ATCT, AMGR, SEA FPO, ATA.

CHANGES - REASONS:

1. UPDATED MAGNETIC VARIATION (MAG VAR) FOR SEATTLE-TACOMA INTERNATIONAL AIRPORT (KSEA) - UPDATED FROM 17E (EPOCH YEAR 2010) "TO" 16E (EPOCH YEAR 2020) - MAGNETIC VARIATION UPDATE REQUIRED.
2. CHANGED VIA "TO" ON IN DP ROUTE DESCRIPTION - VIA NO LONGER USED.
3. CHANGED APOSTROPHE (') REPRESENTING FEET IN THE TAKEOFF OBSTACLE NOTES "TO" FT.
4. ADDED ABBREVIATED AMENDMENT.
5. ADDED SCHEDULED AIR CARRIERS (A4A) TO COORDINATED WITH.