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

			Č	Ceilings are in feet abo	ve airport elevat	ion. Distances are ir	n nautical miles. Visibilities	s are in statue n	iles or feet RVR unless of	otherwise indicated.			
DP NAM	1 <u>E</u>					NUMBER	DP COMPUTER	R CODE	SUPERSEDED	NUMBER	DATE	D	ACTUAL EFFECTIVE DATE
ELMAA						FIVE	ELMAA5.ELI	MAA	FOUR	1	07/14/2	022	
TYPE:	OBSTACLE	COPTER	SID	SPECIAL	RNAV								
TAKEOF TAKEOF	F RWY 16C: CL	MB ON HEADII	NG 161.00 AN	ID SEA R-161 TI ND SEA R-161 T ND SEA R-161 T	HENCE								
				VE 3000, THEN I				PT SEA VO	RTAC R-230 TO E	ELMAA/HQM 32.	.66 DME, 1	HEN ON T	RANSITION/ASSIGNED
TRANSIT	ION ROUTES (GRAPHIC DEPI	ICTION ONLY	<u>):</u>									
<u> </u>	TION NAME	TRANSITI COMPUTER		<u>FROM</u> FIX/NAVAII	<u>)</u>		<u>TO</u> NAVAID		COURSE	DISTANCE	<u>MEA</u>	MOCA	CROSSING ALTITUDE/FIXES
HOQUIA	М	ELMAA5.H	HQM	ELMAA		HQM	VORTAC	229.0	5 (HQM R-049)	32.66	FL180	3000	
PBN RE	QUIREMENT NO	OTES:											
RADAR / PROCED	ENT REQUIREM AND DME REQU DURAL DATA NO F MINIMUMS:	JIRED. OTES:											
RWY 160	C: STANDARD V	VITH MINIMUM	CLIMB OF 5	60 FT/NM TO 300 15 FT/NM TO 30 00 FT/NM TO 30	00.								
	FF OBSTACLES RM 8260.15A, TA		IUMS AND OE	BSTACLE DEPA	RTURE PRO	OCEDURES (OI	DP).						
RWY 16L RWY 16F	DLLING OBSTA L: 499 FT MSL T R: 509 FT MSL T	REE 472523.86											
MSA.													

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA: CHART: TOP ALTITUDE: ASSIGNED BY ATC.

AIRPORT MV: SEA 19E/2000

MSA FROM SEA VORTAC: 360-160 6400, 160-250 2200, 250-360 3400

<u>DP NAME</u> ELMAA	<u>NUMBER</u> FIVE	DP COMPUTER CODE ELMAA5.ELMAA	SUPERSEDED NUMBER FOUR	DATED 07/14/2022	ACTUAL EFFECTIVE DAT
AIRPORTS SERVED:					
AIRPORT ID		CITY			<u>STATE</u>
KSEA		SEATTLE			WA
COMMUNICATIONS:					
CHART: SEA ATIS, SEA CLNC DEL.					
FIXES AND/OR NAVAIDS:					
REMARKS: ABBREVIATED AMENDMENT TO REMOVE CORVALLIS TRANSITION [APPROVAL LETTER ON FILE FOR CLIMB GRADIENTS GREATER THA MSA DATA DERIVED FROM KSEA ILS PROCEDURES.		/ 16L/C FOR NOISE ABATEM	ENT.		
FLIGHT INSPECTED BY SIGNA	TURE Digit	ally signed by	<u>OFFICE</u>	<u>DATE</u>	
"Processed IAW Technical Support Group (AJF-17) Memo dated 07/07/07	/, Subject:	IC N SUSKI			
Guidance for Procedural Changes Requiring Flight Inspection/Validation"	No	ov 15, 2024			
DEVELOPED BY SIGNA			<u>OFFICE</u>	DATE	
RICHARD E. CHRISTENSEN	•		AJV-A431	06/13/2024	
RICHARD E. C					
Nov 14 APPROVED BY SIGNA			OFFICE	DATE	TITLE
ERIC N. SUSKI			AJV-A431		MANAGER
	signed by				
	N SUSKI				
ROUTINE Nov 1	5, 2024				
COORDINATED WITH:					
A4A 🖂 ALPA 🖂 AOPA 🥽 APA 🥽 HAI 🦳 NB.	AA OTHER: ZSE	E, SEA APCH CON, SEA ATC	T, AMGR, WA AERO		
CHANCES DEACONS.					

1. DP ROUTE DESCRIPTION: ADDED "TAKEOFF" BEFORE RWY NUMBERS, CHANGED DESCRIPTION FROM "TO CROSS PEAKK/5.00 DME/RADAR AT OR ABOVE 3000, THEN RIGHT TURN HEADING 251 TO INTERCEPT SEA R-230 TO ELMAA/HQM 32.66 DME, THEN ON (TRANSITION/ASSIGNED ROUTE), EXPECT REQUESTED ALTITUDE/FLIGHT LEVEL 15 NM FROM SEA" TO "TO CROSS PEAKK/5.00 DME/ RADAR AT OR ABOVE 3000, THEN RIGHT TURN ON HEADING 251 TO INTERCEPT SEA VORTAC R-230 TO ELMAA/HQM 32.66 DME, THEN ON COURSE 229.05 TO CROSS HQM VORTAC R-049 AT OR ABOVE MEA FOR ROUTE OF FLIGHT, MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT REQUESTED ALTITUDE 15 NM FROM SEA" - "TAKEOFF" IAW 8260,46J EXAMPLES, CVO TRANSITION REMOVED FROM PROCEDURE SO INCLUDED HQM ROUTE IN DESCRIPTION.

- 2. TRANSITION ROUTES: REMOVED TRANSITIONS FORM FORM CVO TRANSITION REMOVED FROM PROCEDURE DUE TO YYJ DECOM, ONLY HQM ROUTE REMAINS ON PROCEDURE AND ADDED TO DP ROUTE DESCRIPTION.
- 3. TAKEOFF MINIMUMS: REMOVED RWY 34L/C/R: NA NOISE ABATEMENT NOT REQUIRED ON 15B DOCUMENTATION ONLY 15A.
- 4. TAKEOFF OBSTACLES NOTES: ADDED SEE FORM 8260.15A. TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP) IAW 8260.46J APPENDIX D. SECTION 2. PARA 21.
- 5. MSA: ADDED MSA FROM SEA VORTAC: 360-160 6400, 160-250 2200, 250-360 3400 IAW 8260.46J APPENDIX D, SECTION 2, PARA 2K.
- 6. ADDITIONAL FLIGHT DATA: REMOVED CHART: COP ON CVO TRANSITION YYJ 154/CVO 100 CVO TRANSITION REMOVED FROM PROCEDURE.
- 7. ADDITIONAL FLIGHT DATA: ADDED AIRPORT MV: SEA 19E/2000 IAW MEMO 283 DATED 7/15/2022.
- 8. REMARKS: REMOVED "RADAR REQUIRED FOR POTENTIAL YYJ SIGNAL RECEPTION ISSUES". ADDED "ABBREVIATED AMENDMENT TO REMOVE CORVALLIS TRANSITION DUE TO YYJ DECOM". "MSA DATA DERIVED FROM KSEA ILS PROCEDURES". AND "APPROVAL LETTER ON FILE FOR CLIMB GRADIENTS GREATER THAN 500 FT/NM FOR RWY 16L/C FOR NOISE ABATEMENT" - CVO TRANSITION REMOVED FROM PROCEDURE, IAW 8260.46J APPENDIX D, SECTION 2, PARA 2Q(3), AND FOR FUTURE SPECIALISTS REFERENCE.



DP NAME

NUMBER
DP COMPUTER CODE
SUPERSEDED NUMBER
DATED
ACTUAL EFFECTIVE DATE
ELMAA

FIVE
ELMAA5.ELMAA
FOUR
07/14/2022

11/14/24: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 08/02/24.

1. DP ROUTE DESCRIPTION: CHANGED DP ROUTE DESCRIPTION FROM "...TO CROSS PEAKK/5.00 DME/RADAR AT OR ABOVE 3000, THEN RIGHT TURN ON HEADING 251 TO INTERCEPT SEA VORTAC R-230 TO ELMAA/HQM 32.66 DME, THEN ON COURSE 229.05 TO CROSS HQM VORTAC R-049 AT OR ABOVE MEA FOR ROUTE OF FLIGHT. MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT REQUESTED ALTITUDE 15 NM FROM SEA." TO "...TO CROSS PEAKK/5.00 DME/RADAR AT OR ABOVE 3000, THEN RIGHT TURN ON HEADING 251 TO INTERCEPT SEA VORTAC R-230 TO ELMAA/HQM 32.66 DME, THEN ON TRANSITION/ASSIGNED ROUTE. MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT REQUESTED ALTITUDE 15 NM FROM SEA."

2. TRANSITION ROUTE: ADDED HOQUIAM TRANSITION BACK INTO TRANSITION ROUTES.