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

DP NAM	ИE					NUMBER	DP COMPUTER CODE	SUPERSEDED	NUMBER	DATI	ED	ACTUAL EFFECTIVE DATE
ELMAA					FIVE	ELMAA5.ELMAA	FOUR		07/14/2022		26 DEC 2024	
TYPE:	OBSTACLE	COPTER	SID	SPECIAL	RNAV							
TAKEOF TAKEOF	F RWY 16C: CL	IMB ON HEADI IMB ON HEADI	ING 161.00 A	ND SEA R-161 TH ND SEA R-161 TH ND SEA R-161 TH	HENCE							
				,			G 251 TO INTERCEPT SEA V D ALTITUDE, EXPECT REQU			,	THEN ON C	COURSE 229.05 TO CROSS
TRANSI	TION ROUTES (GRAPHIC DEP	ICTION ONL	<u>.Y):</u>								
TRANSI	TION NAME	TRANSIT COMPUTER		<u>FROM</u> FIX/NAVAID	<u>)</u>	FIX	TO NAVAID	COURSE	DISTANCE	MEA	MOCA	CROSSING ALTITUDE/FIXES
		·										
PBN RE	QUIREMENT NO	OTES:										
	IENT REQUIREI AND DME REQU											
PROCE	DURAL DATA N	OTES:										
RWY 16 RWY 16	C: STANDARD \	WITH MINIMUM	1 CLIMB OF 5	560 FT/NM TO 300 515 FT/NM TO 300 500 FT/NM TO 300	00.							
	FF OBSTACLES RM 8260.15A, TA		MUMS AND O	BSTACLE DEPA	RTURE PRO	OCEDURES (O	DP).					
RWY 16	OLLING OBSTA L: 499 FT MSL T R: 509 FT MSL T	REE 472523.86										
<u>MSA</u> : MSA FR	OM SEA VORTA	AC: 360-160 640	00, 160-250 2	2200, 250-360 340	0							
LOST C	OMMUNICATIO	NS PROCEDUR	RES:									
												AAL/S

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

AIRPORT MV: SEA 19E/2000

NFDD No. 194			10/07/2024		17	
DP NAME ELMAA		NUMBER FIVE	DP COMPUTER CODE ELMAA5.ELMAA	SUPERSEDED NUMBER FOUR	DATED 07/14/2022	ACTUAL EFFECTIVE DATE 26 DEC 2024
AIRPORTS SERVED:						
AIRPORT ID			CITY			STATE
KSEA			SEATTLE			WA
COMMUNICATIONS:						
CHART: SEA ATIS, SEA CLNC DEL.						
FIXES AND/OR NAVAIDS:						
REMARKS: ABBREVIATED AMENDMENT TO REMOVE OF APPROVAL LETTER ON FILE FOR CLIMB GRASA DATA DERIVED FROM KSEA ILS PROC	RADIENTS GREATER THAN 500 FT		Y 16L/C FOR NOISE ABATEMEI	NT.		
FLIGHT INSPECTED BY PROCESSED IAW TECHNICAL SUPPORT GF SUBJECT: GUIDANCE FOR PROCEDURAL C	,		Digitally signed by ROBERT G HAMILTO Aug 02, 2024	OFFICE ON	<u>DATE</u>	
DEVELOPED BY	SIGNATURE			OFFICE	DATE	
RICHARD E. CHRISTENSEN	Digitally signed by RICHARD E. CHRISTEN	ISEN		AJV-A431	06/13/2024	
	Jul 30, 2024					
APPROVED BY	<u>SIGNATURE</u>		Digitally signed by	<u>OFFICE</u>	DATE	TITLE
ERIC N. SUSKI			ROBERT G HAMILTON	AJV-A431		MANAGER
DECLUDED FEFFOTIVE DATE			Aug 02, 2024			

REQUIRED EFFECTIVE DATE

ROUTINE

COORDINATED WITH:

A4A \times ALPA 🔀 AOPA 🔀 $APA \times$ HAI $NBAA \times$ OTHER: ZSE, SEA APCH CON, SEA ATCT, AMGR, WA AERO

CHANGES - REASONS:

- 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.