

**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SUPERSEDED NUMBER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>ACTUAL EFFECTIVE DATE</u>
CASCADE	FOUR	CASCD4.CHISM	THREE	09/03/2024	17APR2025

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	☐	☐	☒	☐	☒

DP ROUTE DESCRIPTION:

TAKEOFF RWY 10L: CLIMB ON HEADING 103.03 TO INTERCEPT COURSE 082.15 TO RIVRR, THEN ON DEPICTED ROUTE TO CROSS CHISM AT OR ABOVE 10100, THENCE...
TAKEOFF RWY 10R: CLIMB ON HEADING 103.01 TO INTERCEPT COURSE 077.86 TO RIVRR, THEN ON DEPICTED ROUTE TO CROSS CHISM AT OR ABOVE 10100, THENCE...
TAKEOFF RWY 28L: CLIMB DIRECT PEGTY, THEN ON DEPICTED ROUTE TO CROSS CHISM AT OR ABOVE 10100, THENCE...
TAKEOFF RWY 28R: CLIMB ON HEADING 283.04 TO INTERCEPT COURSE 269.12 TO PEGTY, THEN ON DEPICTED ROUTE TO CROSS CHISM AT OR ABOVE 10100, THENCE...

....ON TRANSITION, MAINTAIN ATC ASSIGNED ALTITUDE. 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>
DESCHUTES	CASCD4.DSD	CHISM	DSD VORTAC	TRACK 126.88	60.67	13000	12700	
JUDAH	CASCD4.JUDAH	CHISM	JUDAH	TRACK 148.32	135.14	13000	12500	
PUHTS	CASCD4.PUHTS	CHISM	PUHTS	TRACK 130.98	83.76	13000	12700	
SYNKR	CASCD4.SYNKR	CHISM	SYNKR	TRACK 144.80	134.95	13000	12500	

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS REQUIRED

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT

PROCEDURAL DATA NOTES:

NOTE: JET AIRCRAFT ONLY

TAKEOFF MINIMUMS:

RWY 10L, 10R: STANDARD WITH MINIMUM CLIMB OF 500 FT/NM TO 540
RWY 28L: STANDARD WITH MINIMUM CLIMB OF 350 FT/NM TO 540
RWY 28R: STANDARD WITH MINIMUM CLIMB OF 300 FT/NM TO 540

TAKEOFF OBSTACLES NOTES:

SEE FORM 8260-15A TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP).

CONTROLLING OBSTACLES:**MSA:**

MSA FROM KPDX 5800



LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:
DME/DME ASSESSMENT SAT, RNP 2.0 SAT.
CHART: TOP ALTITUDE: ASSIGNED BY ATC.
AIRPORT MV: PDX 16E/2010.
CHART SPEED ICON MANDATORY SPEED 250 KIAS AT RUTGE.
CHART: AT OR ABOVE 5000 AT RUTGE.

<u>AIRPORTS SERVED:</u>	<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
	KPDX	PORTLAND	OR

COMMUNICATIONS:
CHART: D-ATIS, CLNC DEL, CPDLC, GND CON, TWR.

FIXES AND/OR NAVAIDS:
COSUG, HADIS, KELYY, RUTGE, TOSEH

REMARKS:
DO NOT CHART MOCA: FROM CHISM TO DSD VORTAC, CHISM TO PUHTS.
RWY 10L/R LNAV ENGAGEMENT CLIMB GRADIENT REQUIRED TO ENSURE LNAV ENGAGEMENT TO MEET MINIMUM REQUIRED CLIMB-TO INTERCEPT LEG LENGTH.
RWY 28L/R LNAV ENGAGEMENT CLIMB GRADIENT REQUIRED TO ENSURE LNAV ENGAGEMENT ALTITUDE REACHED PRIOR TO ATT/FIX ERROR AT FIX PEGTY.
MEA FROM CHISM TO DSD VORTAC REDUCED FROM 18000 TO 13000 FOR DME/DME EVAL.
MSA CONTROLLING OBSTACLE: 4728 MSL AAO 455300.00N/1220324.00W.
ABBREVIATED AMENDMENT TO UPDATE MAG COURSE CHISM TO DSD VORTAC.

<u>FLIGHT INSPECTED BY</u>	<u>SIGNATURE</u>	<u>OFFICE</u>	<u>DATE</u>	
PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021, SUBJECT: GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION.				
<u>DEVELOPED BY</u>	<u>SIGNATURE</u>	<u>OFFICE</u>	<u>DATE</u>	
RICHARD E. CHRISTENSEN	<i>Digitally signed by</i> RICHARD E. CHRISTENSEN	AJV-A441	11/12/2024	
<u>APPROVED BY</u>	<u>SIGNATURE</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
DON H. LANIER	<i>Digitally signed by</i> DONALD H LANIER	AJV-A441		MANAGER

REQUIRED EFFECTIVE DATE
ROUTINE

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZSE, ATCT, ST AERO, AMGR

CHANGES - REASONS:
1. TRANSITION ROUTES: CHANGED COURSE CHISM TO DSD VORTAC FROM 124.88 TO 126.88 - PREVIOUS AMENDMENT UTILIZED DSD MAGVAR INSTEAD OF AIRPORT MAGVAR, CLEARS NOTAM 4/6021.
2. REMARKS: ADDED ABBREVIATED AMENDMENT TO UPDATE MAG COURSE CHISM TO DSD VORTAC - IAW 8260.46J APPENDIX E, SECTION 1, PARA 2Q(4).



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
DEPARTURE (DATA RECORD)**

<u>DP NAME</u>		<u>NUMBER</u>		<u>DP COMPUTER CODE</u>		<u>SUPERSEDED NUMBER</u>		<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
CASCADE		FOUR		CASCD4.CHISM		THREE		09/03/2024	17APR2025
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
RW10L (AER)*	453541.28N/1223544.19W*	N	-	-	-	-			*DISPL THLD (1290 FT)
-	453430.72N/1223243.21W	-	-	VI	119.03	2.42			CG 500 FT/NM TO 540
RIVRR	453404.55N/1222822.20W	Y	FB	CF	098.15	3.09			
COSUG	453227.71N/1221930.64W	Y	FB	TF	104.48	6.43			
HADIS	452921.94N/1221636.60W	Y	FB	TF	146.61	3.71			
CHISM	450343.82N/1220908.87W	Y	FB	TF	168.34	26.18	AT/ABOVE 10100		
RW10R (AER)	453542.53N/1223717.30W	N	-	-	-	-			
-	453419.73N/1223344.78W	-	-	VI	119.01	2.84			CG 500 FT/NM TO 540
RIVRR	453404.55N/1222822.20W	Y	FB	CF	093.86	3.79			
COSUG	453227.71N/1221930.64W	Y	FB	TF	104.48	6.43			
HADIS	452921.94N/1221636.60W	Y	FB	TF	146.61	3.71			
CHISM	450343.82N/1220908.87W	Y	FB	TF	168.34	26.18	AT/ABOVE 10100		
RW28L (AER)	453449.85N/1223502.05W	N	-	-	-	-			
PEGTY	453701.71N/1224017.66W	Y	FB	DF	-	4.30			CG 350 FT/NM TO 540
KELYY	454027.55N/1224845.50W	Y	FB	TF	300.07	6.86			
RUTGE	453851.30N/1225615.33W	Y	FB	TF	253.08	5.50	AT/ABOVE 5000	AT 250K	
TOSEH	453229.75N/1225335.44W	Y	FB	TF	163.59	6.63			
CHISM	450343.82N/1220908.87W	Y	FB	TF	132.26	42.56	AT/ABOVE 10100		

QUALITY
23
CHECKED

<u>DP NAME</u>		<u>NUMBER</u>		<u>DP COMPUTER CODE</u>		<u>SUPERSEDED NUMBER</u>		<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
CASCADE		FOUR		CASCD4.CHISM		THREE		09/03/2024	17APR2025
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
RW28R (AER)*	453502.94N/1223405.84W*	N	-	-	-	-			*DISPL THLD (535 FT)
-	453636.94N/1223807.15W	-	-	VI	299.04	3.23			CG 300 FT/NM TO 540
PEGTY	453701.71N/1224017.66W	Y	FB	CF	285.12	1.58			
KELYY	454027.55N/1224845.50W	Y	FB	TF	300.07	6.86			
RUTGE	453851.30N/1225615.33W	Y	FB	TF	253.08	5.50	AT/ABOVE 5000	AT 250K	
TOSEH	453229.75N/1225335.44W	Y	FB	TF	163.59	6.63			
CHISM	450343.82N/1220908.87W	Y	FB	TF	132.26	42.56	AT/ABOVE 10100		
CHISM	450343.82N/1220908.87W	Y	-	IF	-	-			CASCD4.DSD
DSD VORTAC	441509.94N/1211812.79W	Y	FB	TF	142.88	60.67			
CHISM	450343.82N/1220908.87W	Y	-	IF	-	-			CASCD4.JUDAH
JUDAH	425325.46N/1211928.13W	Y	FB	TF	164.32	135.14			
CHISM	450343.82N/1220908.87W	Y	-	IF	-	-			CASCD4.PUHTS
PUHTS	435312.47N/1210601.49W	Y	FB	TF	146.98	83.76			
CHISM	450343.82N/1220908.87W	Y	-	IF	-	-			CASCD4.SYNKR
SYNKR	425600.19N/1210845.15W	Y	FB	TF	160.80	134.95			

