

**U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
GRAPHIC DEPARTURE PROCEDURE (DP)**

Bearings, headings, courses, tracks, and radials are magnetic. Elevation 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. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CASCADE	ONE	CASCD1.CHISM	NONE		20 SEP 2012

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RUNWAY 10L: CLIMB HEADING 103.03 TO 540, THEN DIRECT RIVRR, THEN ON DEPICTED ROUTE TO CHISM, THENCE...
 TAKEOFF RUNWAY 10R: CLIMB HEADING 103.01 TO 540, THEN DIRECT RIVRR, THEN ON DEPICTED ROUTE TO CHISM, THENCE...
 TAKEOFF RUNWAY 28L: CLIMB HEADING 283.03 TO 540, THEN DIRECT PEGTY, THEN ON DEPICTED ROUTE TO CHISM, THENCE...
 TAKEOFF RUNWAY 28R: CLIMB HEADING 283.04 TO 540, THEN DIRECT PEGTY, THEN ON DEPICTED ROUTE TO CHISM, THENCE...

VIA (TRANSITION), MAINTAIN ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
DESCHUTES	CASCD1.DSD	CHISM	DSD VORTAC	TRACK 126.88	60.67	FL180	13000	
JOGEN	CASCD1.JOGEN	CHISM	JOGEN	TRACK 137.83	48.95	FL180	13000	
PAWLI	CASCD1.PAWLI	CHISM	PAWLI	TRACK 138.51	124.66	FL230	13000	
SMIGE	CASCD1.SMIGE	CHISM	SMIGE	TRACK 138.30	80.78	FL230	13000	

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: TURBOJET AIRCRAFT ONLY.
 NOTE: RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.
 NOTE: RNAV 1.
 NOTE: DME/DME/IRU OR GPS REQUIRED
 NOTE: FOR NON-GPS EQUIPPED AIRCRAFT DEPARTING RWY 10L/R, UBG DME MUST BE OPERATIONAL FOR ALL TRANSITIONS.
 NOTE: FOR NON-GPS EQUIPPED AIRCRAFT DEPARTING RWY 28L/R, UBG DME, AND BTG DME MUST BE OPERATIONAL FOR ALL TRANSITIONS.
 RWY 3/21: NA-AIR TRAFFIC.
 RWY 10L/R: STANDARD WITH A MINIMUM CLIMB OF 350 FT PER NM TO 10300.
 RWY 28L/R: STANDARD WITH A MINIMUM CLIMB OF 350 FT PER NM TO 2500.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 10L, VEHICLES ON ROAD BEGINNING AT DER, 376 FT LEFT OF CENTERLINE, UP TO 15 FT AGL/ 78 FT MSL. TREES BEGINNING 1201 FT FROM DER, 753 FT RIGHT OF CENTERLINE, UP TO 75 FT AGL/95 FT MSL. NOTE: RWY 10R, POLE 1996 FT FROM DER, 759 FT RIGHT OF CENTERLINE, 54 FT AGL/74 FT MSL. NOTE: RWY 28L, TREES 1873 FT FROM DER, 837 FT LEFT OF CENTERLINE, UP TO 75 FT AGL/95 FT MSL. NOTE: RWY 28R, BUILDING, ANTENNAS, VEHICLES ON ROAD, BEGINNING 130 FT FROM DER, 257 FT RIGHT OF CENTERLINE, UP TO 27 FT AGL/58 FT MSL

CONTROLLING OBSTACLES: RWY 10L/R, 10697 FT MSL AAO 444023.80N/1214750.70W

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 10L/R, 28L/R, 11439 FT MSL TERRAIN 452228.70N/1214137.10W

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CASCADE	ONE	CASCD1.CHISM	NONE		20 SEP 2012

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KPDY 16E EPOCH YEAR: 2010
 DME/DME ASSESSMENT SAT RNP 1.0

AIRPORTS SERVED:

PORTLAND INTL, PORTLAND, OR

COMMUNICATIONS:

ATIS, CLNC DEL, GND CON, PDX ATCT, PDX DEP CON

FIXES AND/OR NAVAIDS:

REMARKS:

PER LEAD EVEN THOUGH THE 1980 20E EPOCH YEAR MAG VAR REQUIRES UPDATING THIS PROCEDURE COMPLETED USING EXISTING MAGVAR AND FPT ADVISED. |
 VA DF CALCULATOR DTD 10/13/2011 USED TO DETERMINE THAT 350 CLIMB GRADIENT WAS MINIMUM ACCEPTABLE FOR VA DF LEG CONSTRUCTION.



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CASCADE	ONE	CASCD1.CHISM	NONE		20 SEP 2012

CHANGES:

ORIGINAL

REASONS:

ATC REQUEST

03/30/2012. THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 01/20/2012.

1. REMOVED ALTITUDE CROSSING RESTRICTION AT HADIS AND KELYY.

5/04/2012

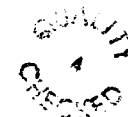
1. DP ROUTE DESCRIPTION: PAGE 1 of 3 LINES 1-4 CHANGED MAGNETIC HEADING + 4 DEGREES.
2. TRANSITION ROUTE (GRAPHIC DEPICTION ONLY): PAGE 1 OF 3 TRACK COURSE LINES 1-4 CHANGED MAGNETIC HEADING =4 DEGREES.
3. PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS: LINE 6 REMOVED PDX DME.
4. ADDITIONAL FLIGHT DATA: PAGE 2 of 3 CHANGED MAG VAR +4 DEGREES AND CHANGED EPOCH YEAR TO 2010.
5. PAGE 3 OF 3 ADDED FLIGHT INSPECTION BY INFORMATION.

05/12/2012 THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 01/20/2012.

1. PAGE 1 OF 3 DEPARTURE ROUTE DESCRIPTION, TRANSITION ROUTES (GRAPHIC DEPICTION ONLY) ADDED 4 DEGREES TO ALL MAGNETIC HEADINGS.
2. PAGE 1 OF 3 PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS: NOTES REMOVED PDX DME NOTE: (LINE 6)
3. PAGE 2 OF 3 ADDITIONAL FLIGHT DATA UPDATED REFERENCE MAG VAR: FROM KPDX 20E EPOCH YEAR 1980 TO KPDX 16E AND EPOCH YEAR 2010.
4. PAGE 2 OF 3 ADDITIONAL FLIGHT DATA REMOVED NOTES: CHART HADIS AT OR BELOW 9000 AND CHART KELYY AT OR BELOW 9000.

07/31/2012 THIS IS AN UPDATED COPY OF THE FAA FORM 8260-15C DEVELOPED ON 1/20/2012.

1. 8260-15C PAGE 1 OF 2 LINE LAST LINE REMARKS BLOCK CHANGED FROM CASCD1.IMB TO CASCD1.DSD.
2. 8260-15C PAGE 2 OF 2 LINE 2 CHANGED CHANGED REMARKS BLOCK FROM CASCD1.KOATA TO CASCD1.JOGEN.



DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CASCADE	ONE	CASCD1.CHISM			20 SEP 2012

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RWY 10L (AER)*	453541.28N/1223544.19W	N							*DISPLACED THRESHOLD (1290 FT)
540 MSL				VA	119.03				CG 350 FT/NM TO 10300.
RIVRR	453404.55N/1222822.20W	Y	FB	DF					
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			
RWY 10R (AER)	453542.53N/1223717.30W	N							
540 MSL				VA	119.01				CG 350 FT/NM TO 10300.
RIVRR	453404.55N/1222822.20W	Y	FB	DF					
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			
RW 28L (AER)	453449.85N/1223502.05W	N							
540 MSL				VA	299.03				CG 350 FT/NM TO 2500,
PEGTY	453701.71N/1224017.66W	Y	FB	DF					
KELYY	454027.55N/1224845.50W	Y	FB	TF	300.07	6.86			
WANOS	453851.30N/1225615.33W	Y	FB	TF	253.08	5.50			
TOSEH	453229.75N/1225335.44W	Y	FB	TF	163.59	6.63			
CHISM	450343.82N/1220908.87W	Y	FB	TF	132.26	42.56			
RW28R (AER)*	453502.94N/1223405.84W	N							*DISPLACED THRESHOLD (535 FT)
540 MSL				VA	299.04				CG 350 FT/NM TO 2500,
PEGTY	453701.71N/1224017.66W	Y	FB	DF					
KELYY	454027.55N/1224845.50W	Y	FB	TF	300.07	6.86			
WANOS	453851.30N/1225615.33W	Y	FB	TF	253.08	5.50			
TOSEH	453229.75N/1225335.44W	Y	FB	TF	163.59	6.63			
CHISM	450343.82N/1220908.87W	Y	FB	TF	132.26	42.56			
CHISM	450343.82N/1220908.87W	Y		IF					CASCD1.DSD

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CASCADE	ONE	CASCD1.CHISM			20 SEP 2012

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
DSD	441509.95N/1211812.69	Y	FB	TF	142.88	60.67			
CHISM	450343.82N/1220908.87W	Y		IF					CASCD1.JOGEN
JOGEN	441944.00N/1213904.00W	Y	FB	TF	153.83	48.95			
CHISM	450343.82N/1220908.87W	Y		IF					CASCD1.PAWLI
PAWLI	431048.00N/1205550.00W	Y	FB	TF	154.51	124.66			
CHISM	450343.82N/1220908.87W	Y		IF					CASCD1.SMIGE
SMIGE	435046.00N/1212045.00W	Y	FB	TF	154.30	80.78			

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CASCADE RNAV	ONE	CASCD1.CHISM	NONE		20 SEP 2012

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	RW10B		010		VA		FB		103.0()		AA 00540	
	RW10B	RIVRR	020		DF		FB	1.0				
	RW10B	COSUG	030		TF		FB	1.0	088.5()	006.4		
	RW10B	HADIS	040		TF		FB	1.0	130.6()	003.7		
	RW10B	CHISM	050		TF		FB	1.0	152.3()	026.2		
	RW28B		010		VA		FB		283.0()		AA 00540	
	RW28B	PEGTY	020		DF		FB	1.0				
	RW28B	KELYY	030		TF		FB	1.0	284.1()	006.9		
	RW28B	WANOS	040		TF		FB	1.0	237.1()	005.5		
	RW28B	TOSEH	050		TF		FB	1.0	147.6()	006.6		
	RW28B	CHISM	060		TF		FB	1.0	116.3()	042.6		
	DSD	CHISM	010		IF		FB					
	DSD	DSD	020		TF		FB	1.0	126.9()	060.7		
	JOGEN	CHISM	010		IF		FB					
	JOGEN	JOGEN	020		TF		FB	1.0	137.8()	049.0		
	PAWLI	CHISM	010		IF		FB					
	PAWLI	PAWLI	020		TF		FB	1.0	138.5()	124.7		
	SMIGE	CHISM	010		IF		FB					
	SMIGE	SMIGE	020		TF		FB	1.0	138.3()	080.8		

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	DSD	N441509.95	W1211812.69	N4415.166	W12118.212
	CHISM	N450343.82	W1220908.87	N4503.730	W12209.148
	COSUG	N453227.71	W1221930.64	N4532.462	W12219.511
	HADIS	N452921.94	W1221636.60	N4529.366	W12216.610
	JOGEN	N441944.00	W1213904.00	N4419.733	W12139.067
	KELYY	N454027.55	W1224845.50	N4540.459	W12248.758
	PAWLI	N431048.00	W1205550.00	N4310.800	W12055.833
	PEGTY	N453701.71	W1224017.66	N4537.029	W12240.294
	RIVRR	N453404.55	W1222822.20	N4534.076	W12228.370
	SMIGE	N435046.00	W1212045.00	N4350.767	W12120.750
	TOSEH	N453229.75	W1225335.44	N4532.496	W12253.591
	WANOS	N453851.30	W1225615.33	N4538.855	W12256.256
	RW10L	N453541.28	W1223544.19	N4535.688	W12235.737
	RW10R	N453542.53	W1223717.30	N4535.709	W12237.288
	RW28L	N453449.85	W1223502.05	N4534.831	W12235.034
	RW28R	N453502.94	W1223405.84	N4535.049	W12234.097

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH

QUALITY
CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
CASCADE RNAV	ONE	CASCD1.CHISM	NONE		20 SEP 2012

RW10L	00030	49
RW10R	00023	53
RW28L	00023	55
RW28R	00031	54

