

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WHAMY	THREE	WHAMY3.WHAMY	TWO	18 NOV 2010	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 WHAMY, THENCE...
 TAKEOFF RUNWAY 10R: CLIMB HEADING 103.01 TO 540, THEN DIRECT RIVRR, THEN ON DEPICTED ROUTE TO WHAMY, THENCE...
 TAKEOFF RUNWAY 28L: CLIMB HEADING 283.03 TO 540, THEN DIRECT PEGTY, THEN ON DEPICTED ROUTE TO WHAMY, THENCE...
 TAKEOFF RUNWAY 28R: CLIMB HEADING 283.04 TO 540, THEN DIRECT PEGTY, THEN ON DEPICTED ROUTE TO WHAMY, 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
KIMBERLY	WHAMY3.IMB	WHAMY	IMB VORTAC	TRACK 93.82	103.19	FL230	8100	
KOATA	WHAMY3.KOATA	WHAMY	KOATA	TRACK 113.02	169.35	FL230	9200	
RIELY	WHAMY3.RIELY	WHAMY	RIELY	TRACK 113.06	151.24	FL230	9200	

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 THE KIMBERLY TRANSITION; UBG DME AND IMB DME MUST BE OPERATIONAL FOR THE RIELY AND KOATA TRANSITIONS.

NOTE: FOR NON-GPS EQUIPPED AIRCRAFT DEPARTING RWY 28L/R, UBG DME, IMB DME AND BTG DME MUST BE OPERATIONAL FOR THE RIELY AND KOATA TRANSITION; UBG DME AND BTG DME MUST BE OPERATIONAL FOR THE KIMBERLY TRANSITION.

RWY 3/21: NA-AIR TRAFFIC.

RWY 10L/R: STANDARD WITH A MINIMUM CLIMB OF 350 FT PER NM TO 6600.

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, 4699 FT MSL AAO 451737.12N/1220230.22W

QUALITY
CHECKED

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

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KPDX 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.

QUALITY
CHECK

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WHAMY	THREE	WHAMY3.WHAMY	TWO	18 NOV 2010	20 SEP 2012

CHANGES:

1. TAKEOFF RWY 10L CHANGED FROM CLIMB HEADING 099.03 TO 540, THEN DIRECT RIVRR, AND ON TRACK 084.48 TO COSUG, AND ON TRACK 126.61 TO CROSS HADIS AT OR BELOW 9000 (ATC)/2900, THEN ON TRACK 126.58 TO WHAMY AT OR 6600, THENCE... TO CLIMB HEADING 103.03 TO 540, THEN DIRECT RIVRR, THEN ON DEPICTED ROUTE TO WHAMY, THENCE...
2. TAKEOFF RWY 10R CHANGED FROM CLIMB HEADING 099.01 TO 540, THEN DIRECT RIVRR, AND ON TRACK 084.48 TO COSUG, AND ON TRACK 126.61 TO CROSS HADIS AT OR BELOW 9000 (ATC)/2900, THEN ON TRACK 126.58 TO WHAMY AT OR 6600, THENCE... TO CLIMB HEADING 103.01 TO 540, THEN DIRECT RIVRR, THEN ON DEPICTED ROUTE TO WHAMY, THENCE...
3. TAKEOFF RWY 28L: CHANGED FROM CLIMB HEADING 279.03 TO 540, THEN DIRECT PEGTY, AND ON TRACK 280.07 TO CROSS KELYY AT OR BELOW 9000 (ATC)/1900, THEN ON TRACK 233.08 TO WANOS, AND ON TRACK 143.59 TO TOSEH, AND ON TRACK 096.46 TO WHAMY AT OR ABOVE 6600, THENCE... TO CLIMB HEADING 283.03 TO 540, THEN DIRECT PEGTY, THEN ON DEPICTED ROUTE TO WHAMY, THENCE...
4. TAKEOFF RWY 28R: CHANGED FROM CLIMB HEADING 279.04 TO 540, THEN DIRECT PEGTY, AND ON TRACK 280.07 TO CROSS KELYY AT OR BELOW 9000 (ATC)/1900, THEN ON TRACK 233.08 TO WANOS, AND ON TRACK 143.59 TO TOSEH, AND ON TRACK 096.46 TO WHAMY AT OR ABOVE 6600, THENCE... TO CLIMB HEADING 283.04 TO 540, THEN DIRECT PEGTY, THEN ON DEPICTED ROUTE TO WHAMY, THENCE...
5. DELETED JOGEN, SMIGE AND PAWLI TRANSITIONS.
6. ADDED FIX KOATA AND KOATA TRANSITION.
7. MOVED WHAMY 2.91 NM EAST, RETAINED FIX NAME PER ATC REQUEST DUE TO OPERATIONAL REQUIREMENT.
8. ADDED BTG AS CRITICAL DME'S FOR RWY 28L/R DEPARTURES FOR ALL TRANSITIONS.
9. ADDED IMB AS CRITICAL DME FOR KOATA AND RIELY TRANSITIONS.



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10. CHANGED RWY 10/L/R TAKEOFF MINIMUMS FROM STANDARD WITH A MINIMUM CLIMB OF 218 FEET PER NM TO 6600, ATC CLIMB OF 350 FEET PER NM TO 3300, THEN ATC CLIMB OF 300 FEET PER NM TO FL 190. TO : STANDARD WITH A MINIMUM CLIMB OF 350 FT PER NM TO 6600.

11. CHANGED RWY 28 L/R TAKEOFF MINIMUMS FROM STANDARD, ATC CLIMB OF 350 FEET PER NM TO 2500, THEN 300 FEET PER NM TO FL 190. TO STANDARD WITH A MINIMUM CLIMB OF 350 FT PER NM TO 2500. |

REASONS:

1-7. ATC REQUEST

8-9. REQUIRED BY DME/DME/IRU ASSESMENT RESULTS.

10-11. CAN NOT HAVE ATC CLIMB GRADIENTS LESS THAN REQUIRED FOR TERPS.

03/30/2012. THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 01/13/2012.

1. REMOVED ALTITUDE CROSSING RESTRICTION AT HADIS AND KELYY. |

05/04/2012 THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 01/13/2012

1. PAGE 1 OF 4 DEPARTURE ROUTE DESCRIPTION, TRANSITION ROUTES (GRAPHIC DEPICTION ONLY) ADDED 4 DEGREES TO ALL MAGNETIC HEADINGS.

2. PAGE 1 OF 4 PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS: NOTES REMOVED PDX DME NOTE: (LINE 7 AND 8).

3. PAGE 2 OF 4 ADDITIONAL FLIGHT DATA UPDATED REFERENCE MAG VAR: FROM KPDX 20E EPOCH YEAR 1980 TO KPDX 16E AND EPOCH YEAR 2010.

4. PAGE 3 OF 4 CHANGES 1, LINE 2 ADDED BOLD TO AFTER THENCE...

5. PAGE 3 OF 4 CHANGES 1,2,3 AND 4 AFTER BOLD TO ADDED 4 DEGREES TO ALL MAGNETIC HEADINGS.

6. FLIGHT INSPECTED BY ADDED KARL WAHLBORG, AJW334E AND 04 APR 2012.

7. PAGE 3 OF 4 CHANGES LINE 8 REMOVED PDX FROM CRITICAL DME STATEMENT.

08/06/2012. THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 08/01/2012.

1. REPLACED PAGE 5 OF 10 WITH THE CORRECT COPY THAT REMOVED THE ALTITUDE CROSSING RESTRICTIONS AT HADIS AND KELYY.



DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code		Superseded Number		Dated	Effective Date		
WHAMY	THREE	WHAMY3.WHAMY		TWO		18 NOV 2010	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 6600.
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			
WHAMY	451515.00N/1215842.00W	Y	FB	TF	138.09	18.94			
RWY 10R (AER)	453542.53N/1223717.30W	N							
540 MSL				VA	119.01				CG 350 FT/NM TO 6600.
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			
WHAMY	451515.00N/1215842.00W	Y	FB	TF	138.09	18.94			
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			
WHAMY	451515.00N/1215842.00W	Y	FB	TF	113.71	42.35			
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			
WHAMY	451515.00N/1215842.00W	Y	FB	TF	113.71	42.35			
WHAMY	451515.00N/1215842.00W	Y		IF					WHAMY3.IMB
IMB	443854.21/1194241.87W	Y	FB	TF	109.82	103.19			

DEPARTURE (DATA RECORD)

DP Name		Number		DP Computer Code			Superseded Number		Dated	Effective Date
WHAMY		THREE		WHAMY3.WHAMY			TWO		18 NOV 2010	20 SEP 2012
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS	

WHAMY	451515.00N/1215842.00W	Y		IF					WHAMY3.KOATA
KOATA	432611.72N/1185806.21W	Y	FB	TF	129.02	169.35			
WHAMY	451515.00N/1215842.00W	Y		IF					WHAMY3.RIELY
RIELY	433800.00N/1191700.00W	Y	FB	TF	129.06	151.24			

10/11/12
1
CHLO

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WHAMY RNAV	THREE	WHAMY3.WHAMY	TWO	18 NOV 2010	20 SEP 2012

ARINC PACKET - 424-18 - SID

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KPDXX1DWHAMY34RW10B	010	0	VA		1030		+ 00540	18000				
SUSAP	KPDXX1DWHAMY34RW10B	020RIVRRK1EA0E	010DF										
SUSAP	KPDXX1DWHAMY34RW10B	030COSUGK1EA0E	010TF			08850064							
SUSAP	KPDXX1DWHAMY34RW10B	040HADISK1EA0E	010TF			13060037							
SUSAP	KPDXX1DWHAMY34RW10B	050WHAMYK1EA0EE	010TF			12210189							
SUSAP	KPDXX1DWHAMY34RW28B	010	0	VA		2830		+ 00540	18000				
SUSAP	KPDXX1DWHAMY34RW28B	020PEGTYK1EA0E	010DF										
SUSAP	KPDXX1DWHAMY34RW28B	030KELYK1EA0E	010TF			28410069							
SUSAP	KPDXX1DWHAMY34RW28B	040WANOSK1EA0E	010TF			23710055							
SUSAP	KPDXX1DWHAMY34RW28B	050TOSEHK1EA0E	010TF			14760066							
SUSAP	KPDXX1DWHAMY34RW28B	060WHAMYK1EA0EE	010TF			09770424							
SUSAP	KPDXX1DWHAMY36IMB	010WHAMYK1EA0E	IF						18000				
SUSAP	KPDXX1DWHAMY36IMB	020IMB K1D OVE	010TF			09381032							
SUSAP	KPDXX1DWHAMY36KOATA	010WHAMYK1EA0E	IF						18000				
SUSAP	KPDXX1DWHAMY36KOATA	020KOATAK1EA0EE	010TF			11301694							
SUSAP	KPDXX1DWHAMY36RIELY	010WHAMYK1EA0E	IF						18000				
SUSAP	KPDXX1DWHAMY36RIELY	020RIELYK1EA0EE	010TF			11311512							



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WHAMY RNAV	THREE	WHAMY3.WHAMY	TWO	18 NOV 2010	20 SEP 2012

QUALITY
4
CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WHAMY RNAV	THREE	WHAMY3.WHAMY	TWO	18 NOV 2010	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	WHAMY	050		TF		FB	1.0	122.1()	018.9		
	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	WHAMY	060		TF		FB	1.0	097.7()	042.4		
	IMB	WHAMY	010		IF		FB					
	IMB	IMB	020		TF		FB	1.0	093.8()	103.2		
	KOATA	WHAMY	010		IF		FB					
	KOATA	KOATA	020		TF		FB	1.0	113.0()	169.4		
	RIELY	WHAMY	010		IF		FB					
	RIELY	RIELY	020		TF		FB	1.0	113.1()	151.2		

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	IMB	N443854.21	W1194241.87	N4438.904	W11942.698
	COSUG	N453227.71	W1221930.64	N4532.462	W12219.511
	HADIS	N452921.94	W1221636.60	N4529.366	W12216.610
	KELYY	N454027.55	W1224845.50	N4540.459	W12248.758
	KOATA	N432611.72	W1185806.21	N4326.195	W11858.104
	PEGTY	N453701.71	W1224017.66	N4537.029	W12240.294
	RIELY	N433800.00	W1191700.00	N4338.000	W11917.000
	RIVRR	N453404.55	W1222822.20	N4534.076	W12228.370
	TOSEH	N453229.75	W1225335.44	N4532.496	W12253.591
	WANOS	N453851.30	W1225615.33	N4538.855	W12256.256
	WHAMY	N451515.00	W1215842.00	N4515.250	W12158.700
	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	THRESHOLD	
RWY	ELEVATION	TCH
RW10L	00030	49
RW10R	00023	53
RW28L	00023	55



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RW28R 00031 54