09/09/2024

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 statue miles or feet RVR unless otherwise indicated.

DP NAM	<u>//E</u>					NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
WHAMY						FIVE	WHAMY5.WHAMY	FOUR	11/13/2014	310CT2024
TYPE:	OBSTACLE	<u>COPTER</u>	SID	SPECIAL	RNAV					
			\boxtimes		\boxtimes					

DP ROUTE DESCRIPTION:

TAKEOFF RWY 10L: CLIMB ON HEADING 103.03 TO INTERCEPT COURSE 082.15 TO RIVRR, THEN ON DEPICTED ROUTE TO CROSS WHAMY AT OR ABOVE 10000, THENCE... TAKEOFF RWY 10R: CLIMB ON HEADING 103.01 TO INTERCEPT COURSE 077.86 TO RIVRR, THEN ON DEPICTED ROUTE TO CROSS WHAMY AT OR ABOVE 10000, THENCE... TAKEOFF RWY 28L: CLIMB DIRECT PEGTY, THEN ON DEPICTED ROUTE TO CROSS WHAMY AT OR ABOVE 10000, THENCE... TAKEOFF RWY 28R: CLIMB ON HEADING 283.04 TO INTERCEPT COURSE 269.12 TO PEGTY, THEN ON DEPICTED ROUTE TO CROSS WHAMY AT OR ABOVE 10000, THENCE...

...ON TRANSITION, MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

TRANSITION NAME	TRANSITION COMPUTER CODE	<u>FROM</u> <u>FIX/NAVAID</u>	<u>TO</u> <u>FIX/NAVAID</u>		DISTANCE	MEA	MOCA	CROSSING ALTITUDE/FIXES
KIMBERLY	WHAMY5.IMB	WHAMY	IMB VOR/DME	TRACK 093.82	103.19	10000	8200	
КОАТА	WHAMY5.KOATA	WHAMY	КОАТА	TRACK 113.02	169.35	15000	9200	

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS

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 500 FT/NM TO 540, THEN MINIMUM CLIMB 205 FT/NM TO 6200 RWY 28L: STANDARD WITH MINIMUM CLIMB OF 350 FT/NM TO 540 RWY 28L: 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:

RWY 10L, 10R: 4682 FT MSL AAO 451739.00N/1220230.00W

MSA:

MSA FROM KPDX 5800

LOST COMMUNICATIONS PROCEDURES:



NFDD NO. 174		09/09/2024			79
DP NAME WHAMY	NUMBER FIVE	DP COMPUTER CODE WHAMY5.WHAMY	SUPERSEDED NUMBER FOUR	<u>DATED</u> 11/13/2014	ACTUAL EFFECTIVE DATE 310CT2024
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. AIRPORTS SERVED:					
AIRPORT ID		CITY			STATE
KPDX		PORTLAND			OR

COMMUNICATIONS:

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

FIXES AND/OR NAVAIDS:

COSUG, HADIS, KELLY, RUTGE, TOSEH

REMARKS:

MEA WHAMY TO IMB VOR/DME REDUCED FROM FL230 TO 10000 AND WHAMY TO KOATA FROM FL230 TO 15000 FOR DME/DME EVAL. 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. MSA CONTROLLING OBSTACLE: 4728 MSL AAO 455300.00N/1220324.00W

FLIGHT INSPECTED BY	SIGNATURE WENDI S GIMA	Digitally signed by ROBERT G HAMILTON Sep 03, 2024	OFFICE FPO	DATE 08/30/2024	
DEVELOPED BY	SIGNATURE		OFFICE	DATE	
RICHARD E. CHRISTENSEN	Digitally signed by RICHARD E. CHRISTENSEN	ı	AJV-A431	06/26/2024	
APPROVED BY	Jul 08, 2024 <u>SIGNATURE</u>		OFFICE	DATE	TITLE
ERIC N SUSKI		Digitally signed by	AJV-A431		MANAGER
	R	OBERT G HAMILTON			
REQUIRED EFFECTIVE DATE ROUTINE		Sep 03, 2024			

COORDINATED WITH:

CHANGES - REASONS:

1. FIX NAME CHANGED FROM WANOS TO RUTGE AND REMOVED WANOS NOTE IN PROCEDURAL DATA - ATC REQUEST; SIMILAR-SOUNDING NAME WHAMY NEARBY.

2. DP ROUTE DESCRIPTION TAKEOFF RWY 10L CHANGED FROM "CLIMB HEADING 103.03 TO 540, THEN DIRECT TO RIVRR, THEN ON DEPICTED ROUTE TO WHAMY, THENCE" TO "CLIMB ON HEADING 103.03 TO INTERCEPT COURSE 082.15 TO RIVRR, THEN ON DEPICTED ROUTE TO CROSS WHAMY AT OR ABOVE 10000, THENCE" - ATC/FPT REQUEST.

3. DP ROUTE DESCRIPTION TAKEOFF RWY 10R CHANGED FROM "CLIMB HEADING 103.01 TO 540, THEN DIRECT RIVRR, THEN ON DEPICTED ROUTE TO WHAMY, THENCE" TO "CLIMB ON HEADING 103.01 TO INTERCEPT COURSE 077.86 TO RIVRR, THEN ON DEPICTED ROUTE TO CROSS WHAMY AT OR ABOVE 10000, THENCE" - ATC/FPT REQUEST.

4. DP ROUTE DESCRIPTION TAKEOFF RWY 28L CHANGED FROM "CLIMB HEADING 283.03 TO 540, THEN DIRECT TO PEGTY, THEN ON DEPICTED ROUTE TO WHAMY, THENCE" TO "CLIMB DIRECT PEGTY, THEN ON DEPICTED ROUTE TO CROSS WHAMY AT OR ABOVE 10000, THENCE" - ATC/FPT REQUEST.

5. DP ROUTE DESCRIPTION TAKEOFF RWY 28R CHANGED FROM "CLIMB HEADING 283.04, INTERCEPT COURSE 268.00 TO PEGTY, THEN ON DEPICTED ROUTE TO "CLIMB ON HEADING 283.04 TO INTERCEPT COURSE 269.12 TO PEGTY, THEN ON DEPICTED ROUTE TO CROSS WHAMY AT OR ABOVE 10000, THENCE" - ATC/FPT REQUEST.

NFDD NO. 174		09/09/2024			80
DP NAME	<u>NUMBER</u>	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE 310CT2024
WHAMY	FIVE	WHAMY5.WHAMY	FOUR	11/13/2014	

6. DP ROUTE DESCRIPTION THENCE INSTRUCTIONS CHANGED FROM "VIA (TRANSITION), MAINTAIN ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE." - ATC/FPT REQUEST AND VIA NO LONGER USED AND 'MAINTAIN "ATC" ASSIGNED ALTITUDE 10 MINUTES AFTER DEPARTURE." - ATC/FPT REQUEST AND VIA NO LONGER USED AND 'MAINTAIN "ATC" ASSIGNED ALTITUDE' ADDED IAW 8260.46J 3-1-1L(6).

7. TRANSITION ROUTE: WHAMY TO IMB VOR/DME MEA LOWERED FROM FL230 TO 10000, AND WHAMY TO KOATA FROM FL230 TO 15000 - NEW DME/DME/IRU RESULTS.

8. TRANSITION ROUTE: RIELY TRANSITION REMOVED FROM PROCEDURE - PER ATC/FPT REQUEST.

9. PROCEDURAL DATA NOTES: MOVED "RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT" TO EQUIPMENT REQUIREMENT NOTES, COMBINED AND MOVED "RNAV 1" AND "DME/DME/IR OR GPS" TO PBN REQUIREMENT NOTES, "CROSS WANOS AT 250 KIAS" FIX NAME CHANGED TO RUTGE AND MOVED NOTE TO ADDITIONAL FLIGHT DATA AS "CHART SPEED ICON MANDATORY SPEED 250 KIAS AT RUTGE" - IAW 8260.46J, APP E, SECTION 1, PARA 2, AND 8260.46J, PARA 2-1-1E(4)(B).

10. PROCEDURAL DATA NOTES: REMOVED NOTES DESIGNATING BTG, UBG AND DSD AS CRITICAL DMES - NEW DME/DME/IRU RESULTS.

11. TAKEOFF MINIMUMS: REMOVED "RWY 3, 21: NA AIR TRAFFIC" - IAW 8260.46J APPENDIX E, SECTION 1, PARA 2H(1).

12. TAKEOFF MINIMUMS RWYS 10L/R CHANGED FROM: "STANDARD WITH A MINIMUM CLIMB OF 500' PER NM TO 540', THEN A MINIMUM CLIMB OF 350' PER NM TO 6600" TO "STANDARD WITH MINIMUM CLIMB 500 FT/NM TO 540, THEN MINIMUM CLIMB 205 FT/NM TO 6200" - NEW OBSTACLE EVALUATION RESULTS, AND LNAV ENGAGEMENT CG REQUIRED FOR VI LEG LENGTH.

13. TAKEOFF MINIMUMS RWYS 28L CHANGED FROM: "STANDARD WITH A MINIMUM CLIMB OF 500' PER NM TO 540', THEN A MINIMUM CLIMB OF 350' PER NM TO 2500" TO "STANDARD WITH MINIMUM CLIMB OF 350 FT/NM TO 540" - NEW OBSTACLE EVALUATION RESULTS, AND LNAV ENGAGEMENT CG REQUIRED FOR ATT/FIX ERROR AT FIX PEGTY.

14. TAKEOFF MINIMUMS RWYS 28R CHANGED FROM: "STANDARD WITH A MINIMUM CLIMB OF 500' PER NM TO 540', THEN A MINIMUM CLIMB OF 350' PER NM TO 2500" TO "STANDARD WITH MINIMUM CLIMB OF 300 FT/NM TO 540 - NEW OBSTACLE EVALUATION RESULTS, AND LNAV ENGAGEMENT CG REQUIRED FOR ATT/FIX ERROR AT FIX PEGTY.

15. TAKEOFF OBSTACLE NOTES: REMOVED AND ADDED "SEE FORM 8260-15A TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)" - IAW 8260.46J APP E, SECTION 1, PARA 2I. 16. CONTROLLING OBSTACLES: ADDED RWY 10L, 10R: 4682 FT MSL AAO 451739.00N/1220230.00W - NEW OBSTACLE EVALUATION RESULTS.

17. MSA: ADDED MSA FROM KPDX 5800 - NEW OBSTACLE EVALUATION RESULTS, IAW 8260.46J, APP E, SECTION 1, PARA 2A.

18. ADDITIONAL FLIGHT DATA: ADDED "CHART: AT OR ABOVE 5000 AT RUTGE" - PER ACT/FPT REQUEST.

19. ADDITIONAL FLIGHT DATA: REMOVED NOTES REGARDING UBG, BTG AND DSD CRITICAL DMES - NEW DME/DME EVALUATION SHOWS NO CRITICAL DME.

20. ADDITIONAL FLIGHT DATA: CHANGED MAGVAR FORMAT STATEMENT FROM "REFERENCE MAG VAR: KPDX 16E, EPOCH YEAR 2010" TO "AIRPORT MV: PDX 16E/2010" - IAW MEMO 283 DATED 7/15/2022.

21. COMMUNICATIONS: CHANGED FROM "PDX ATIS, PDX CLNC DEL, PDX GND CON, PORTLAND TOWER, PORTLAND DEP CON" "CHART D-ATIS, CLNC DEL, CPDLC, GND CON" - IAW 8260.46J, APP E, SECTION 1, PARA 20.

22. REMARKS: ADDED "MEA WHAMY TO IMB VOR/DME REDUCED FROM FL230 TO 10000 AND WHAMY TO KOATA FROM FL230 TO 15000 FOR DME/DME EVAL" - DME/DME EVALUATION RESULTS. 23. REMARKS: ADDED "RWY 10L/R LNAV ENGAGEMENT CLIMB GRADIENT REQUIRED TO ENSURE LNAV ENGAGEMENT TO MEET MINIMUM REQUIRED CLIMB-TO INTERCEPT LEG LENGTH" AND "RWY 28L/R LNAV ENGAGEMENT CLIMB GRADIENT REQUIRED TO ENSURE LNAV ENGAGEMENT ALTITUDE REACHED PRIOR TO ATT/FIX ERROR AT FIX PEGTY" - TO EXPLAIN REASONING FOR LNAV ENGAGEMENT CG REQUIREMENT.

24. REMARKS: ADDED "MSA CONTROLLING OBSTACLE: 4728 MSL AAO 455300.00N/1220324.00W" - FOR FUTURE SPECIALISTS REFERENCE.

25. FIX AND/OR NAVAIDS: ADDED "COSUG, HADIS, KELLY, RUTGE, TOSEH" - IAW 8260.46J APPENDIX E, SECTION 1, PARA 2(P).

NFDD NO. 174

09/09/2024

FEDERAL AVIATION ADMINISTRATION FLIGHT STANDARDS SERVICE DEPARTURE (DATA RECORD)

	DEPARTURE (DATA RECORD)											
DP NAME WHAMY						NUMBER FIVE	DP COMPUTER CODE WHAMY5.WHAMY			DATED 11/13/2014	ACTUAL EFFECTIVE DATE	
								10		11/13/2014	310CT2024	
FIX/NAVAID	LAT/LONG	<u>C</u>	FO/FB	<u>LEG</u> TYPE	<u>TC</u>	<u>DIST</u> (<u>NM)</u>	ALTITUDE	<u>SPEED</u>		REMARKS		
RW10L (AER)*	453541.28N/1223544.19W*	Ν	-	-	-	-			*D	ISPL THLD (1290	FT)	
	453430.72N/1223243.21W	-	-	VI	119.03	2.42			CG 500 FT/NM TO	O 540, THEN CG 2	05 FT/NM TO 6200	
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						
WHAMY	451515.00N/1215842.00W	Y	FB	TF	138.09	18.94	AT/ABOVE 10000					
RW10R (AER)	453542.53N/1223717.30W	Ν	-	-	-	-						
	453419.73N/1223344.78W	-	-	VI	119.01	2.84			CG 500 FT/NM TC	D 540, THEN CG 2	05 FT/NM TO 6200	
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						
WHAMY	451515.00N/1215842.00W	Y	FB	TF	138.09	18.94	AT/ABOVE 10000					
RW28L (AER)	453449.85N/1223502.05W	Ν	-	-	-	-						
PEGTY	453701.71N/1224017.66W	Y	FB	DF	-	4.30			C	G 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						
WHAMY	451515.00N/1215842.00W	Y	FB	TF	113.71	42.35	AT/ABOVE 10000					

OUALIT, 8 CHYECKE

NFD					09/09/2024		82			
DP NAME WHAMY						NUMBER FIVE	DP COMPUTER CODE WHAMY5.WHAMY	E SUPERSEDED NUMBER FOUR	<u>DATED</u> 11/13/2014	ACTUAL EFFECTIVE DATE 310CT2024
FIX/NAVAID	LAT/LONG	<u>C</u>	FO/FB	LEG TYPE	<u>TC</u>	<u>DIST</u> (NM)	ALTITUDE	SPEED	REMARKS	
RW28R (AER)*	453502.94N/1223405.84W*	Ν	-	-	-	-			*DISPL THLD (535	βFT)
	453636.94N/1223807.15W	-	-	VI	299.04	3.23			CG 300 FT/NM TC	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	Υ	FB	TF	253.08	5.50	AT/ABOVE 5000	AT 250K		
TOSEH	453229.75N/1225335.44W	Y	FB	TF	163.59	6.63				
WHAMY	451515.00N/1215842.00W	Y	FB	TF	113.71	42.35	AT/ABOVE 10000			
WHAMY	451515.00N/1215842.00W	Y	-	IF	-	-			WHAMY5.IMB	, ,
IMB VOR/DME	443854.21N/1194241.87W	Y	FB	TF	109.82	103.19				
WHAMY	451515.00N/1215842.00W	Y	-	IF	-	-			WHAMY5.KOAT	ĨA
KOATA	432611.72N/1185806.21W	Y	FB	TF	129.02	169.35				