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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
LAVAA	FIVE	LAVAA5.LAVAA	FOUR	11/18/2010	

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 10R: CLIMB HEADING 103.01 TO 540, THEN LEFT TURN DIRECT RIVRR, THEN ON TRACK 088.48 TO COSUG, THEN ON TRACK 031.04 TO OKKOR, THEN ON TRACK 049.21 TO LAVAA, THENCE...
TAKEOFF RWY 10L: CLIMB HEADING 103.03 TO 540, THEN LEFT TURN DIRECT RIVRR, THEN ON TRACK 088.48 TO COSUG, THEN ON TRACK 031.04 TO OKKOR, THEN ON TRACK 049.21 TO LAVAA, THENCE...
TAKEOFF RWY 28R: CLIMB HEADING 283.04 TO 540, THEN DIRECT PEGTY, THEN ON TRACK 284.07 TO KELYY, THEN ON TRACK 013.15 TO ARUPT, THEN ON TRACK 074.75 TO LAVAA, THENCE...
TAKEOFF RWY 28L: CLIMB HEADING 283.03 TO 540, THEN DIRECT PEGTY, THEN ON TRACK 284.07 TO KELYY, THEN ON TRACK 013.15 TO ARUPT, THEN ON TRACK 074.75 TO LAVAA, 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
PENDLETON	LAVAA5.PDT	LAVAA	PDT VORTAC	074.31	122.64	FL190	6200	
YAKIMA	LAVAA5.YKM	LAVAA	YKM VORTAC	033.46	76.85	FL190	7300	

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
LAVAA	FIVE	LAVAA5.LAVAA	FOUR	11/18/2010	

NOTE: RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.
NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: RNAV1
NOTE: TURBOJET AIRCRAFT ONLY
NOTE: FOR NON-GPS EQUIPPED AIRCRAFT DEPARTING RWY 10L, 10R UBG AND BTG DMEs MUST BE OPERATIONAL FOR THE PENDLETON AND YAKIMA TRANSITION.
NOTE: FOR NON-GPS EQUIPPED AIRCRAFT DEPARTURE RWY 28L LTJ DMEs MUST BE OPERATIONAL FOR THE PENDLETON AND YAKIMA TRANSITION.

TAKEOFF MINIMUMS: RWY 3, 21 NA - AIR TRAFFIC. RWY 10R, 10L STANDARD WITH MINIMUM CLIMB OF 220 FT PER NM TO 5300, ATC CLIMB OF 350 FT PER NM TO 3300, THEN ATC CLIMB OF 320 FT PER NM TO FL190. RWY 28R, 28L STANDARD WITH MINIMUM CLIMB OF 240 FT PER NM TO 6100, ATC CLIMB OF 350 FT PER NM TO 2500, THEN ATC CLIMB OF 300 FT PER NM TO FL190.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 10L, VEHICLES ON ROAD BEGINNING ABEAM 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, 27 FT AGL/58 FT MSL.

CONTROLLING OBSTACLES:

RWY 10L, 10R: 3438 MSL TOWER 454101.00N/1220417.00W. 4019 MSL AAO 454257.00N/1220015.00W. 11439 MSL AAO 452228.70N/1214137.10W.
RWY 28L, 28R: 4600 MSL AAO 454446.50N/1221421.30W. 11439 MSL AAO 452228.70N/1214137.10W

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KPDX 16E EPOCH YEAR: 2010
DME/DME ASSESSMENT: SAT (RNP 2.0)

AIRPORTS SERVED:

PORTLAND INTL	PORTLAND, OR

COMMUNICATIONS:

DEPARTURE ATIS, CLEARANCE DELIVERY, PDX TRACON, ZSE, LOCAL CONTROL, DEPARTURE CONTROL

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
LAVAA	FIVE	LAVAA5.LAVAA	FOUR	11/18/2010	

FIXES AND/OR NAVAIDS:

REMARKS:

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
LAVAA	FIVE	LAVAA5.LAVAA	FOUR	11/18/2010	

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:
ROUTINE

DEVELOPED BY:
TRACEY STILES AJV-354 05/02/12

APPROVED BY:
DEZ SILAGYI MANAGER AJV-354

COORDINATED WITH:
ATA, ALPA, APA, AOPA, NBAA, ZSE, PDX TRACON, AMGR

CHANGES:

1. INCREASED ALL HEADINGS/TRACKS 4 DEGREES.
2. REMOVED ATC CROSSING RESTRICTION AT KELLY AND OKKOR.

REASONS:

1. UPDATED MAGVAR-2010 MAGVAR CHANGES 20E TO 16E.
2. REMOVED PER AFS 400 MEMO AND ATC REQUEST.

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
LAVAA	FIVE	LAVAA5.LAVAA	FOUR	11/18/2010	

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW10L (AER) *	453541.28N/1223544.19W	N	-	-	-	-			*DISPLACED THRESHOLD (1290 FT)
540 MSL		-	-	VA	119.03	-			CG 220 FT/NM TO 5300, ATC CG 350 FT/NM
RIVRR	453404.55N/1222822.20W	Y	FB	DF	-	-			TO 3300, THEN ATC CG 320 FT/NM TO FL 190
C0SUG	453227.71N/1221930.64W	Y	FB	TF	104.48	6.43			LEFT TURN
OKKOR	453854.43N/1220937.95W	Y	FB	TF	047.04	9.47			
LAVAA	454448.00N/1215120.00W	Y	FB	TF	065.21	14.12			
					-				
RW10R (AER)	453542.53N/1223717.30W	N	-	-	-	-			CG 220 FT/NM TO 5300, ATC CG 350 FT/NM
540 MSL		-	-	VA	119.01				TO 3300, THEN ATC CG 320 FT/NM TO FL 190
RIVRR	453404.55N/1222822.20W	Y	FB	DF	-				LEFT TURN
COSUG	453227.71N/1221930.64W	Y	FB	TF	104.48	6.43			
OKKOR	453854.43N/1220937.95W	Y	FB	TF	047.04	9.47			
LAVAA	454448.00N/1215120.00W	Y	FB	TF	065.21	14.12			
RW28L	453449.85N/1223502.05W	N	-	-	-	-			CG 240 FT/NM TO 6100, ATC CG 350 FT/NM
540 MSL		-	-	VA	299.03	-			TO 2500, THEN ATC CG 300 FT/NM TO FL 190
PEGTY	453701.71N/1224017.66W	Y	FB	DF	-	-			
KELYY	454027.55N/1224845.50W	Y	FB	TF	300.07	6.86			
ARUPT	454530.00N/1224444.50W	Y	FB	TF	029.15	5.77			
LAVAA	454448.00N/1215120.00W	Y	FB	TF	090.75	37.40			
RW28R *	453502.94N/1223405.84W	N	-	-	-	-			*DISPLACED THRESHOLD (535FT)
540 MSL		-	-	VA	299.04	-			CG 240 FT/NM TO 6100, ATC CG 350 FT/NM
PEGTY	453701.71N/1224017.66W	Y	FB	DF	-	-			TO 2500, THEN ATC CG 300 FT/NM TO FL 190
KELYY	454027.55N/1224845.50W	Y	FB	TF	300.07	6.86			
ARUPT	454530.00N/1224444.50W	Y	FB	TF	029.15	5.77			
LAVAA	454448.00N/1215120.00W	Y	FB	TF	090.75	37.40			

QUALITY 4 CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
LAVAA	FIVE	LAVAA5.LAVAA	FOUR	11/18/2010	

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
LAVAA	454448.00N/1215120.00W	Y	-	IF	-	-			LAVAA5.PDT
PDT VORTAC		Y	FB	TF	090.31	122.64			
LAVAA	454448.00N/1215120.00W	Y	-	IF	-	-			LAVAA5.YKM
YKM VORTAC		Y	FB	TF	049.46	76.85			

QUALITY CHECKED 4

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
LAVAA (RNAV)	FIVE	LAVAA5.LAVAA	FOUR	11/18/2010	

ARINC PACKET - 424-18 - SID

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        PDT   K1011470VTHA N45415431W118561933    N45415431W118561933E0200015592     NARPENDLETON
        SUSAD        YKM   K1011600VTHW N46341287W120264069    N46341287W120264069E0210009842     NARYAKIMA

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ARUPT K10    W     N45453000W122444450                      E0161     NAR           ARUPT
        SUSAEAENRT   COSUG K10    W     N45322771W122193064                      E0160     NAR           COSUG
        SUSAEAENRT   KELYY K10    W     N45402755W122484550                      E0161     NAR           KELYY
        SUSAEAENRT   LAVAA K10    W   H N45444800W121512000                      E0160     NAR           LAVAA
        SUSAEAENRT   OKKOR K10    W     N45385443W122093795                      E0160     NAR           OKKOR
        SUSAEAENRT   PEGTY K10    W     N45370171W122401766                      E0161     NAR           PEGTY
        SUSAEAENRT   RIVRR K10    W     N45340455W122282220                      E0160     NAR           RIVRR

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KPDXK1APDX     0     110YHN45351935W122354873E016000031         1800018000C    MNAR    PORTLAND INTL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KPDXK1DLAVAA54RW10B 010         0        VA                     1030        + 00540     18000
        SUSAP KPDXK1DLAVAA54RW10B 020RIVRRK1EA0E    010DF
        SUSAP KPDXK1DLAVAA54RW10B 030COSUGK1EA0E    010TF                     08850064
        SUSAP KPDXK1DLAVAA54RW10B 040OKKORK1EA0E    010TF                     03100095
        SUSAP KPDXK1DLAVAA54RW10B 050LAVAAK1EA0EE   010TF                     04920141
        SUSAP KPDXK1DLAVAA54RW28B 010         0        VA                     2830        + 00540     18000
        SUSAP KPDXK1DLAVAA54RW28B 020PEGTYK1EA0E    010DF
        SUSAP KPDXK1DLAVAA54RW28B 030KELYYK1EA0E    010TF                     28410069
        SUSAP KPDXK1DLAVAA54RW28B 040ARUPTK1EA0E    010TF                     01320058
        SUSAP KPDXK1DLAVAA54RW28B 050LAVAAK1EA0EE   010TF                     07480374
        SUSAP KPDXK1DLAVAA56PDT   010LAVAAK1EA0E       IF                                                18000
        SUSAP KPDXK1DLAVAA56PDT   020PDT  K1D 0VE   010TF                     07431226
        SUSAP KPDXK1DLAVAA56YKM   010LAVAAK1EA0E       IF                                                18000
        SUSAP KPDXK1DLAVAA56YKM   020YKM  K1D 0VE   010TF                     03350769

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KPDXK1GRW10L   0098251030 N45354128W122354419+0000    -0013700030129049150IIVDG1
```

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
LAVAA (RNAV)	FIVE	LAVAA5.LAVAA	FOUR	11/18/2010	

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SUSAP KPDXK1GRW10R   0110001030 N45354253W122371730+0000    -0015800023000053150IIPDX3
SUSAP KPDXK1GRW28L   0110002830 N45344985W122350205+0000    -0015800023000055150IIJMJ1
SUSAP KPDXK1GRW28R   0098252830 N45350294W122340584+0000    -0013400031053554150IIIAP1
```

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
LAVAA (RNAV)	FIVE	LAVAA5.LAVAA	FOUR	11/18/2010	

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	OKKOR	040		TF		FB	1.0	031.0()	009.5		
	RW10B	LAVAA	050		TF		FB	1.0	049.2()	014.1		
	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	ARUPT	040		TF		FB	1.0	013.2()	005.8		
	RW28B	LAVAA	050		TF		FB	1.0	074.8()	037.4		
	PDT	LAVAA	010		IF		FB					
	PDT	PDT	020		TF		FB	1.0	074.3()	122.6		
	YKM	LAVAA	010		IF		FB					
	YKM	YKM	020		TF		FB	1.0	033.5()	076.9		

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
PDT	N454154.31	W1185619.33	N4541.905	W11856.322
YKM	N463412.87	W1202640.69	N4634.215	W12026.678
ARUPT	N454530.00	W1224444.50	N4545.500	W12244.742
COSUG	N453227.71	W1221930.64	N4532.462	W12219.511
KELYY	N454027.55	W1224845.50	N4540.459	W12248.758
LAVAA	N454448.00	W1215120.00	N4544.800	W12151.333
OKKOR	N453854.43	W1220937.95	N4538.907	W12209.633
PEGTY	N453701.71	W1224017.66	N4537.029	W12240.294
RIVRR	N453404.55	W1222822.20	N4534.076	W12228.370
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
RW10L	00030	49
RW10R	00023	53
RW28L	00023	55
RW28R	00031	54

QUALITY CHECKED

LAVAA RNAV

Point Of Contact

ATC Facility Name - PDX/P80

POC's Name - Tracy Guinett

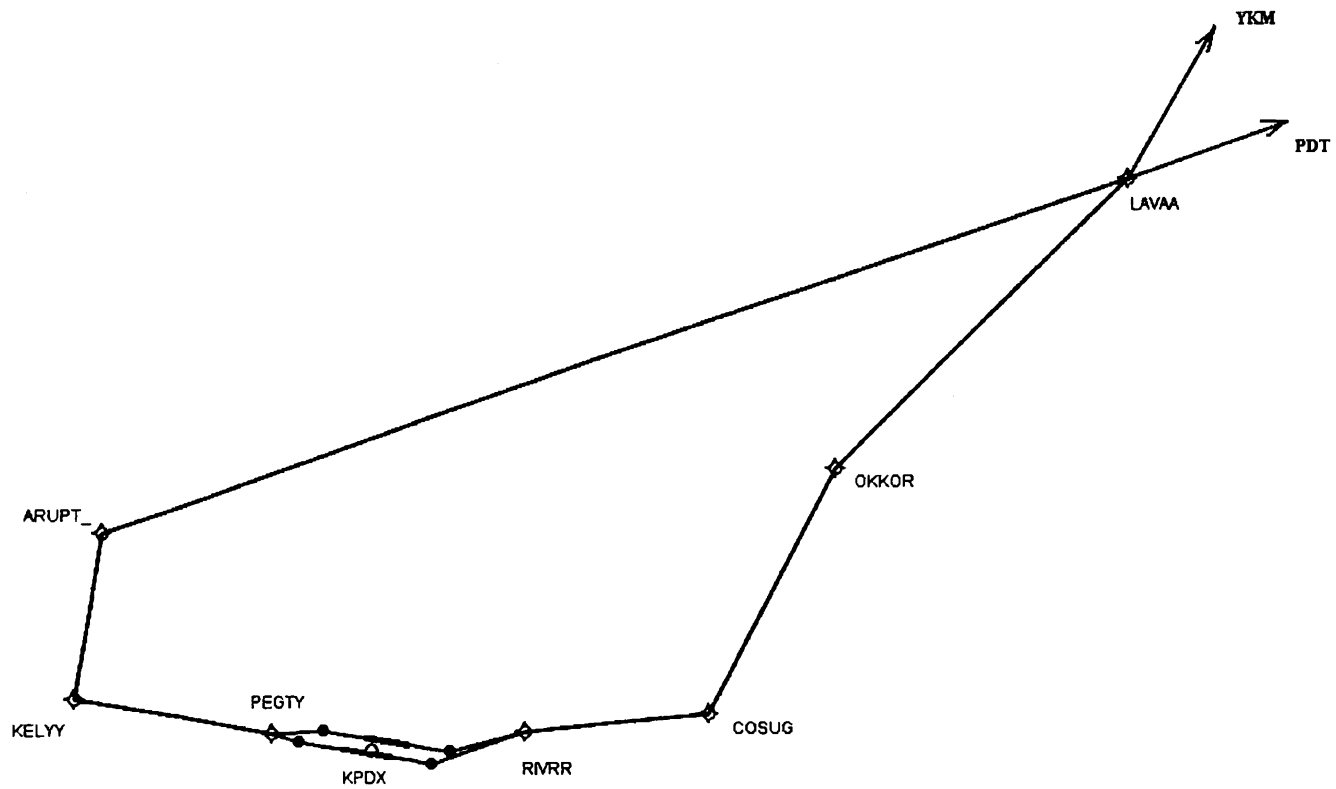
Telephone Number - 503-493-7512

FAX Number - 503-493-7590

Email Address - Tracy.Guinett@faa.gov

TARGETS Distribution Package

Version:TARGETS 4.8 (April 19, 2010)
Date: Sat May 08 12:03:47 PDT 2010



LAVAA RNAV

Created : Sat May 08 12:03:47 PDT 2010 in TARGETS vTARGETS 4.8 (April 19, 2010)

Runway Transition Data - RW10L

DB	Waypoint	Distance	Leg	FO/FB	Latitude	Longitude	TC	MC	Altitude	Speed	Arc Center Lat (D° M' S.ss")	Arc Center Lon (D° M' S.ss")	Arc Radius (NM)
NACO:r unways	***DER RW10L***				N45 35 00.38	W122 33 59.26							
		1.46	VA				119.04	99.04	+540				
AVNIS	RIVRR WP	2.68	DF	FB	N45 34 04.55	W122 28 22.20	94.75	74.75					
AVNIS	COSUG WP	6.43	TF	FB	N45 32 27.71	W122 19 30.64	104.48	84.48					
AVNIS	OKKOR WP	9.47	TF	FB	N45 38 54.43	W122 09 37.95	47.04	27.04	-9000				
AVNIS	LAVAA WP	14.12	TF	FB	N45 44 48.00	W121 51 20.00	65.21	45.21					

Runway Transition Data - RW28R

DB	Waypoint	Distance	Leg	FO/FB	Latitude	Longitude	TC	MC	Altitude	Speed	Arc Center Lat (D° M' S.ss")	Arc Center Lon (D° M' S.ss")	Arc Radius (NM)
NACO:r unways	***DER RW28R***				N45 35 47.45	W122 36 00.06							
		1.46	VA				299.02	279.02	+540				
AVNIS	PEGTY WP	1.82	DF	FB	N45 37 01.71	W122 40 17.66	286.98	266.98					
AVNIS	KELYY WP	6.86	TF	FB	N45 40 27.55	W122 48 45.50	300.07	280.07	-9000				
	ARUPT_WP	5.77	TF	FB	N45 45 30.00	W122 44 44.50	29.15	9.15					
AVNIS	LAVAA WP	37.40	TF	FB	N45 44 48.00	W121 51 20.00	90.75	70.75					

Runway Transition Data - RY 10R

DB	Waypoint	Distance	Leg	FO/FB	Latitude	Longitude	TC	MC	Altitude	Speed	Arc Center Lat (D° M' S.ss")	Arc Center Lon (D° M' S.ss")	Arc Radius (NM)
AVNIS	DER RW10R				N45 34 49.85	W122 35 02.05							
		1.48	VA				119.03	99.03	+540				
AVNIS	RIVRR WP	3.39	DF	FB	N45 34 04.55	W122 28 22.20	90.60	70.60					
/NIS	COSUG WP	6.43	TF	FB	N45 32 27.71	W122 19 30.64	104.48	84.48					
/NIS	OKKOR WP	9.47	TF	FB	N45 38 54.43	W122 09 37.95	47.04	27.04	-9000				
AVNIS	LAVAA WP	14.12	TF	FB	N45 44 48.00	W121 51 20.00	65.21	45.21					

Runway Transition Data - RY 28L

DB	Waypoint	Distance	Leg	FO/FB	Latitude	Longitude	TC	MC	Altitude	Speed	Arc Center Lat (D° M' S.ss")	Arc Center Lon (D° M' S.ss")	Arc Radius (NM)
AVNIS	DER RW28L				N45 35 42.53	W122 37 17.30							
		1.48	VA				299.01	279.01	+540				
AVNIS	PEGTY WP	1.02	DF	FB	N45 37 01.71	W122 40 17.66	306.44	286.44					
AVNIS	KELYY WP	6.86	TF	FB	N45 40 27.55	W122 48 45.50	300.07	280.07	-9000				
	ARUPT_WP	5.77	TF	FB	N45 45 30.00	W122 44 44.50	29.15	9.15					
AVNIS	LAVAA WP	37.40	TF	FB	N45 44 48.00	W121 51 20.00	90.75	70.75					

En Route Transition Data - PDT Transition

DB	Waypoint	Distance	Leg	FO/FB	Latitude	Longitude	TC	MC	Altitude	Speed	Arc Center Lat (D° M' S.ss")	Arc Center Lon (D° M' S.ss")	Arc Radius (NM)
AVNIS	LAVAA WP		IF		N45 44 48.00	W121 51 20.00							
AVNIS	PDT VORTAC	122.64	TF	FB	N45 41 54.31	W118 56 19.33	90.31	70.31					

En Route Transition Data - YKM Transition

DB	Waypoint	Distance	Leg	FO/FB	Latitude	Longitude	TC	MC	Altitude	Speed	Arc Center Lat (D° M' S.ss")	Arc Center Lon (D° M' S.ss")	Arc Radius (NM)
AVNIS	LAVAA WP		IF		N45 44 48.00	W121 51 20.00							
AVNIS	YKM VORTAC	76.85	TF	FB	N46 34 12.87	W120 26 40.69	49.46	29.46					

Waypoint Data

DB	Waypoint	Lat-Long (DMS.S)	Latitude (Deg)	Longitude (Deg)	Latitude (D°, M.mm')	Longitude (D°, M.mm')	Latitude (D° M' S.ss")	Longitude (D° M' S.ss")
	ARUPT_WP	454530.00N-1224444.50W	N 45.7583333	W 122.7456948	N45 45.500	W122 44.742	N45 45 30.00	W122 44 44.50
AVNIS	COSUG WP	453227.71N-1221930.64W	N 45.5410306	W 122.3251778	N45 32.462	W122 19.511	N45 32 27.71	W122 19 30.64
AVNIS	KELYY WP	454027.55N-1224845.50W	N 45.6743194	W 122.8126389	N45 40.459	W122 48.758	N45 40 27.55	W122 48 45.50
AVNIS	LAVAA WP	454448.00N-1215120.00W	N 45.7466667	W 121.8555556	N45 44.800	W121 51.333	N45 44 48.00	W121 51 20.00
AVNIS	OKKOR WP	453854.43N-1220937.95W	N 45.6484528	W 122.1605417	N45 38.907	W122 09.633	N45 38 54.43	W122 09 37.95
AVNIS	PDT VORTAC	454154.31N-1185619.33W	N 45.6984194	W 118.9387028	N45 41.905	W118 56.322	N45 41 54.31	W118 56 19.33
AVNIS	PEGTY WP	453701.71N-1224017.66W	N 45.6171417	W 122.6715722	N45 37.029	W122 40.294	N45 37 01.71	W122 40 17.66
AVNIS	RIVRR WP	453404.55N-1222822.20W	N 45.5679306	W 122.4728333	N45 34.076	W122 28.370	N45 34 04.55	W122 28 22.20
AVNIS	YKM VORTAC	463412.87N-1202640.69W	N 46.5702417	W 120.4446361	N46 34.215	W120 26.678	N46 34 12.87	W120 26 40.69

FAA Criteria Check 8260.54A Results - RW10L:YKM Transition

Leg Type	Waypoint	Turn Type	Alt Restr	Spd Restr	Turn Angle at Wpt	Leg Length (nm)	Min Seg Length	DTA1	DTA1 Turn Rad	DTA1 Turn Alt	DTA1 Turn Spd	DTA1 Bank Angle	DTA1 Tailwind	DTA1 True Airspeed	DTA2	DTA2 Turn Rad	DTA2 Turn Alt	DTA2 Turn Spd	DTA2 Bank Angle	DTA2 Tailwind	DTA2 True Airspeed
VA			+540.0		24.312	1.457	0.000			30	0						759	250			
DF	RIVRR	FLY_BY			9.689	2.682	1.000			759	250						2099	250			
TF	COSUG	FLY_BY			57.554	6.431	2.000			2099	250				1.930	3.514	5315	250	25.000	57.524	277.828
TF	OKKOR	FLY_BY	-9000.0		18.056	9.470	2.570	1.930	3.514	5315	250	25.000	57.524	277.828	0.640	4.029	9000	250	25.000	64.820	294.240
TF	LAVAA	FLY_BY			15.965	14.115	3.000	0.640	4.029	9000	250	25.000	64.820	294.240	0.925	6.594	14240	300	25.000	75.196	384.177
TF	YKM				-	76.849	4.000	0.925	6.594	14240	300	25.000	75.196	384.177			31864	300			

Warnings and Errors for FAA Criteria Check Results - RW10L:YKM Transition:

VA leg requires a climb gradient of 350 ft/nm

FAA Criteria Check 8260.54A Results - RW10L:PDT Transition

Leg Type	Waypoint	Turn Type	Alt Restr	Spd Restr	Turn Angle at Wpt	Leg Length (nm)	Min Seg Length	DTA1	DTA1 Turn Rad	DTA1 Turn Alt	DTA1 Turn Spd	DTA1 Bank Angle	DTA1 Tailwind	DTA1 True Airspeed	DTA2	DTA2 Turn Rad	DTA2 Turn Alt	DTA2 Turn Spd	DTA2 Bank Angle	DTA2 Tailwind	DTA2 True Airspeed
VA			+540.0		24.312	1.457	0.000			30	0						759	250			
DF	RIVRR	FLY_BY			9.689	2.682	1.000			759	250						2099	250			
TF	COSUG	FLY_BY			57.554	6.431	2.000			2099	250				1.930	3.514	5315	250	25.000	57.524	277.828
TF	OKKOR	FLY_BY	-9000.0		18.056	9.470	2.570	1.930	3.514	5315	250	25.000	57.524	277.828	0.640	4.029	9000	250	25.000	64.820	294.240
TF	LAVAA	FLY_BY			24.880	14.115	3.000	0.640	4.029	9000	250	25.000	64.820	294.240	1.455	6.594	14240	300	25.000	75.196	384.177
TF	PDT				-	122.638	4.000	1.455	6.594	14240	300	25.000	75.196	384.177			41000	300			

Warnings and Errors for FAA Criteria Check Results - RW10L:PDT Transition:

VA leg requires a climb gradient of 350 ft/nm

FAA Criteria Check 8260.54A Results - RY 10R:YKM Transition

Leg Type	Waypoint	Turn Type	Alt Restr	Spd Restr	Turn Angle at Wpt	Leg Length (nm)	Min Seg Length	DTA1	DTA1 Turn Rad	DTA1 Turn Alt	DTA1 Turn Spd	DTA1 Bank Angle	DTA1 Tailwind	DTA1 True Airspeed	DTA2	DTA2 Turn Rad	DTA2 Turn Alt	DTA2 Turn Spd	DTA2 Bank Angle	DTA2 Tailwind	DTA2 True Airspeed
VA			+540.0		28.448	1.479	0.000			22	0						762	250			
DF	RIVRR	FLY_BY			13.824	3.389	1.000			762	250				0.383	3.157	2456	250	25.000	51.864	266.005
TF	COSUG	FLY_BY			57.554	6.431	2.339	0.383	3.157	2456	250	25.000	51.864	266.005	1.956	3.561	5672	250	25.000	58.230	279.358
TF	OKKOR	FLY_BY	-9000.0		18.056	9.470	2.596	1.956	3.561	5672	250	25.000	58.230	279.358	0.640	4.029	9000	250	25.000	64.820	294.240
TF	LAVAA	FLY_BY			15.965	14.115	3.000	0.640	4.029	9000	250	25.000	64.820	294.240	0.925	6.594	14240	300	25.000	75.196	384.177
TF	YKM				-	76.849	4.000	0.925	6.594	14240	300	25.000	75.196	384.177			31864	300			

Warnings and Errors for FAA Criteria Check Results - RY 10R:YKM Transition:

VA leg requires a climb gradient of 350 ft/nm

FAA Criteria Check 8260.54A Results - RY 10R:PDT Transition

Leg Type	Waypoint	Turn Type	Alt Restr	Spd Restr	Turn Angle at Wpt	Leg Length (nm)	Min Seg Length	DTA1	DTA1 Turn Rad	DTA1 Turn Alt	DTA1 Turn Spd	DTA1 Bank Angle	DTA1 Tailwind	DTA1 True Airspeed	DTA2	DTA2 Turn Rad	DTA2 Turn Alt	DTA2 Turn Spd	DTA2 Bank Angle	DTA2 Tailwind	DTA2 True Airspeed
VA			+540.0		28.448	1.479	0.000			22	0						762	250			
DF	RIVRR	FLY_BY			13.824	3.389	1.000			762	250				0.383	3.157	2456	250	25.000	51.864	266.005
TF	COSUG	FLY_BY			57.554	6.431	2.339	0.383	3.157	2456	250	25.000	51.864	266.005	1.956	3.561	5672	250	25.000	58.230	279.358
TF	OKKOR	FLY_BY	-9000.0		18.056	9.470	2.596	1.956	3.561	5672	250	25.000	58.230	279.358	0.640	4.029	9000	250	25.000	64.820	294.240
TF	LAVAA	FLY_BY			24.880	14.115	3.000	0.640	4.029	9000	250	25.000	64.820	294.240	1.455	6.594	14240	300	25.000	75.196	384.177
TF	PDT				-	122.638	4.000	1.455	6.594	14240	300	25.000	75.196	384.177			41000	300			

Warnings and Errors for FAA Criteria Check Results - RY 10R:PDT Transition:

VA leg requires a climb gradient of 350 ft/nm

FAA Criteria Check 8260.54A Results - RW28R:YKM Transition

Leg Type	Waypoint	Turn Type	Alt Restr	Spd Restr	Turn Angle at Wpt	Leg Length (nm)	Min Seg Length	DTA1	DTA1 Turn Rad	DTA1 Turn Alt	DTA1 Turn Spd	DTA1 Bank Angle	DTA1 Tailwind	DTA1 True Airspeed	DTA2	DTA2 Turn Rad	DTA2 Turn Alt	DTA2 Turn Spd	DTA2 Bank Angle	DTA2 Tailwind	DTA2 True Airspeed
VA			+540.0		12.020	1.460	0.000			29	0						759	250			
DF	PEGTY	FLY_BY			13.124	1.816	1.000			759	250				0.308	2.680	1667	250	25.000	30.000	262.871
TF	KELYY	FLY_BY	-9000.0		89.173	6.858	3.744	0.308	2.680	1667	250	25.000	30.000	262.871	3.436	3.486	5096	250	25.000	57.090	276.895
TF	ARUPT_	FLY_BY			61.561	5.774	5.747	3.436	3.486	5096	250	25.000	57.090	276.895	2.311	3.880	7983	250	25.000	62.807	289.573
TF	LAVAA	FLY_BY			41.929	37.404	17.836	2.311	3.880	7983	250	25.000	62.807	289.573	15.525	40.519	20745	300	5.000	0.000	493.231
TF	YKM				-	76.849	15.525	15.525	40.519	20745	300	5.000	0.000	493.231			36115	300			

Warnings and Errors for FAA Criteria Check Results - RW28R:YKM Transition:

VA leg requires a climb gradient of 350 ft/nm

FAA Criteria Check 8260.54A Results - RW28R:PDT Transition

Leg Type	Waypoint	Turn Type	Alt Restr	Spd Restr	Turn Angle at Wpt	Leg Length (nm)	Min Seg Length	DTA1	DTA1 Turn Rad	DTA1 Turn Alt	DTA1 Turn Spd	DTA1 Bank Angle	DTA1 Tailwind	DTA1 True Airspeed	DTA2	DTA2 Turn Rad	DTA2 Turn Alt	DTA2 Turn Spd	DTA2 Bank Angle	DTA2 Tailwind	DTA2 True Airspeed
VA			+540.0		12.020	1.460	0.000			29	0						759	250			
DF	PEGTY	FLY_BY			13.124	1.816	1.000			759	250				0.308	2.680	1667	250	25.000	30.000	262.871
TF	KELYY	FLY_BY	-9000.0		89.173	6.858	3.744	0.308	2.680	1667	250	25.000	30.000	262.871	3.436	3.486	5096	250	25.000	57.090	276.895
TF	ARUPT_	FLY_BY			61.561	5.774	5.747	3.436	3.486	5096	250	25.000	57.090	276.895	2.311	3.880	7983	250	25.000	62.807	289.573
TF	LAVAA	FLY_BY			1.083	37.404	3.000	2.311	3.880	7983	250	25.000	62.807	289.573			20745	300			
TF	PDT				-	122.638	4.000			20745	300						41000	300			

Warnings and Errors for FAA Criteria Check Results - RW28R:PDT Transition:

VA leg requires a climb gradient of 350 ft/nm

FAA Criteria Check 8260.54A Results - RY 28L:YKM Transition

Leg Type	Waypoint	Turn Type	Alt Restr	Spd Restr	Turn Angle at Wpt	Leg Length (nm)	Min Seg Length	DTA1	DTA1 Turn Rad	DTA1 Turn Alt	DTA1 Turn Spd	DTA1 Bank Angle	DTA1 Tailwind	DTA1 True Airspeed	DTA2	DTA2 Turn Rad	DTA2 Turn Alt	DTA2 Turn Spd	DTA2 Bank Angle	DTA2 Tailwind	DTA2 True Airspeed
VA			+540.0		7.451	1.479	0.000			22	0						762	250			
DF	PEGTY	FLY_BY			6.352	1.015	1.000			762	250						1270	250			
TF	KELYY	FLY_BY	-9000.0		89.173	6.858	3.385			1270	250				3.385	3.434	4699	250	25.000	56.303	275.214
TF	ARUPT_	FLY_BY			61.561	5.774	5.663	3.385	3.434	4699	250	25.000	56.303	275.214	2.278	3.824	7586	250	25.000	62.020	287.777
TF	LAVAA	FLY_BY			41.929	37.404	17.703	2.278	3.824	7586	250	25.000	62.020	287.777	15.426	40.260	20586	300	5.000	0.000	491.650
TF	YKM				-	76.849	15.426	15.426	40.260	20586	300	5.000	0.000	491.650			35956	300			

Warnings and Errors for FAA Criteria Check Results - RY 28L:YKM Transition:

VA leg requires a climb gradient of 350 ft/nm

FAA Criteria Check 8260.54A Results - RY 28L:PDT Transition

Leg Type	Waypoint	Turn Type	Alt Restr	Spd Restr	Turn Angle at Wpt	Leg Length (nm)	Min Seg Length	DTA1	DTA1 Turn Rad	DTA1 Turn Alt	DTA1 Turn Spd	DTA1 Bank Angle	DTA1 Tailwind	DTA1 True Airspeed	DTA2	DTA2 Turn Rad	DTA2 Turn Alt	DTA2 Turn Spd	DTA2 Bank Angle	DTA2 Tailwind	DTA2 True Airspeed
VA			+540.0		7.451	1.479	0.000			22	0						762	250			
DF	PEGTY	FLY_BY			6.352	1.015	1.000			762	250						1270	250			
TF	KELYY	FLY_BY	-9000.0		89.173	6.858	3.385			1270	250				3.385	3.434	4699	250	25.000	56.303	275.214
TF	ARUPT_	FLY_BY			61.561	5.774	5.663	3.385	3.434	4699	250	25.000	56.303	275.214	2.278	3.824	7586	250	25.000	62.020	287.777
TF	LAVAA	FLY_BY			1.083	37.404	3.000	2.278	3.824	7586	250	25.000	62.020	287.777			20586	300			
TF	PDT				-	122.638	4.000			20586	300						41000	300			

Warnings and Errors for FAA Criteria Check Results - RY 28L:PDT Transition:

VA leg requires a climb gradient of 350 ft/nm

Database Effective Dates

Database	Date
UddfObstacle	06/01/2007
NFDC	04/08/2010
IFP_OFFLINE	N/A
AVNIS	05/08/2010
NACO	05/06/2010
DOF	04/08/2010

Notes:

This procedure is being modified to encompass the new length of RWY 10L/28R, scheduled for opening 9/23/2010. Also, the fix ARUPT is moving approximately 2 NM south.
The speed restriction of at or below 250 kts. at ARUPT is removed from the procedure. The procedure passed Targets without the speed restriction. The criteria in 8260.54A and the greater allowable bank angle allows the removal of the speed. The critical DMEs changed due to the use of ESVs.

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: ARUPT **STATE:** WA **COUNTRY:** US

LATITUDE/LONGITUDE: 454530.00N/1224444.50W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	LAVAA (RNAV)			KPDX	PORTLAND	OR (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 11/18/2010

REASON FOR REVISION:
CHANGED STATE FROM OR TO WA, FIX IS LOCATED IN WASHINGTON STATE.
MOVED FIX 1.93NM SOUTH/SOUTHWEST.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 06/21/2010 **OFFICE:** AVN-130 **NAME:** ADOLFO URRUTIA (ROBERT DAVIS)

APPROVED BY: **DATE:** 09/21/2010 **OFFICE:** AVN-130 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY: PDX APP CON
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: COSUG **STATE:** OR **COUNTRY:** US

LATITUDE/LONGITUDE: 453227.71N/1221930.64W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CASCADE (RNAV)			KPDX	PORTLAND	OR (US)
DP	HRMNS (RNAV)			KPDX	PORTLAND	OR (US)
DP	LAVAA (RNAV)			KPDX	PORTLAND	OR (US)
DP	MINNE (RNAV)			KPDX	PORTLAND	OR (US)
DP	WHAMY (RNAV)			KPDX	PORTLAND	OR (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 08/27/2009

REASON FOR REVISION:
REMOVED FAC 1, WP REFERENCE NO LONGER REQUIRED FOR 8260-2 REPORTS FORMAT.

DEVELOPED BY: **DATE:** 03/27/2009 **OFFICE:** AVN-130 **NAME:** KEITH SHYKES

APPROVED BY: **DATE:** 06/29/2009 **OFFICE:** AVN-130 **NAME:** RICK WEBB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY: PDX APP CON
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: KELYY **STATE:** OR **COUNTRY:** US

LATITUDE/LONGITUDE: 454027.55N/1224845.50W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CASCADE (RNAV)			KPDX	PORTLAND	OR (US)
DP	HRMNS (RNAV)			KPDX	PORTLAND	OR (US)
DP	LAVAA (RNAV)			KPDX	PORTLAND	OR (US)
DP	MINNE (RNAV)			KPDX	PORTLAND	OR (US)
DP	WHAMY (RNAV)			KPDX	PORTLAND	OR (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 08/27/2009

REASON FOR REVISION:
FAC 1 REMOVED. WP REFERENCE NO LONGER REQUIRED FOR 8260-2 REPORTS FORMAT.

DEVELOPED BY: **DATE:** 03/27/2009 **OFFICE:** AVN-130 **NAME:** KEITH SHYKES

APPROVED BY: **DATE:** 06/29/2009 **OFFICE:** AVN-130 **NAME:** RICK WEBB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY: PDX APP CON
OTHER:

QUALITY CHECKED 3

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: LAVAA **STATE:** WA **COUNTRY:** US

LATITUDE/LONGITUDE: 454448.00N/1215120.00W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	LAVAA (RNAV)			KPDX	PORTLAND	OR (US)
EN ROUTE	J16					OR (US)

REQUIRED CHARTING: DP, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 11/18/2010

REASON FOR REVISION:
CHANGED STATE FROM OR TO WA, FIX IS LOCATED IN WASHINGTON STATE.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 06/21/2010 **OFFICE:** AVN-130 **NAME:** ADOLFO URRUTIA (ROBERT DAVIS)

APPROVED BY: **DATE:** 09/21/2010 **OFFICE:** AVN-130 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY: PDX APP CON
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: OKKOR **STATE:** WA **COUNTRY:** US

LATITUDE/LONGITUDE: 453854.43N/1220937.95W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	LAVAA (RNAV)			KPDX	PORTLAND	OR (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 11/18/2010

REASON FOR REVISION:
CHANGED STATE FROM OR TO WA, FIX IS LOCATED IN WASHINGTON STATE.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 06/21/2010 **OFFICE:** AVN-130 **NAME:** ADOLFO URRUTIA (ROBERT DAVIS)

APPROVED BY: **DATE:** 09/21/2010 **OFFICE:** AVN-130 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY: PDX APP CON
OTHER:

QUALITY CHECKED 3

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: PEGTY **STATE:** OR **COUNTRY:** US

LATITUDE/LONGITUDE: 453701.71N/1224017.66W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CASCADE (RNAV)			KPDX	PORTLAND	OR (US)
DP	HRMNS (RNAV)			KPDX	PORTLAND	OR (US)
DP	LAVAA (RNAV)			KPDX	PORTLAND	OR (US)
DP	MINNE (RNAV)			KPDX	PORTLAND	OR (US)
DP	WHAMY (RNAV)			KPDX	PORTLAND	OR (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 08/27/2009

REASON FOR REVISION:
FAC 1 REMOVED. WP REFERENCE NO LONGER REQUIRED FOR 8260-2 REPORTS FORMAT.

DEVELOPED BY: **DATE:** 03/26/2009 **OFFICE:** AVN-130 **NAME:** KEITH SHYKES

APPROVED BY: **DATE:** 06/29/2009 **OFFICE:** AVN-130 **NAME:** RICK WEBB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY: PDX APP CON
OTHER:

QUALITY CHECKED 3

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: PENDLETON VORTAC **STATE:** OR **COUNTRY:** US

LATITUDE/LONGITUDE: 454154.31N/1185619.33W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	PENDLETON	PDT	VORTAC	H							45000

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	W	PDT	VORTAC	253.00	073.00	R	1-1 1/2		4000	17500	4	16
2	E	PDT	VORTAC	095.00	275.00	R	1-1 1/2		4000	17500	4	16
3	E		WP	100.00	280.00	R		4	4000	14000	5	11
4	E	PDT	VORTAC	100.00	280.00	R	1		4000	14000	4	10
5	W		WP	253.00	073.00	R		4	4000	6000	5	6
6	W	PDT	VORTAC	253.00	073.00	L	1		4000	17500	4	16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	453709.00N/1185906.00W	2412	4E
1	310	AAO	453224.00N/1190518.00W	2796	4E
2	200	AAO	454045.00N/1185518.00W	1900	4E
3	200	AAO	453809.00N/1185751.00W	2054	4E
4	200	AAO	453827.00N/1185748.00W	1910	4E
5	200	AAO	453636.00N/1185915.00W	2441	4E
5	310	AAO	453215.00N/1190518.00W	2904	4E
6	200	AAO	454045.00N/1185518.00W	1900	4E
6	310	AAO	453640.17N/1185916.57W	2459	2C

REASON FOR NONSTANDARD HOLDING:
PAT 6 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	VOR RWY 07	KPDT	PENDLETON	OR (US)
1	ILS OR LOC/DME RWY 25	KPDT	PENDLETON	OR (US)
1	TAKE OFF MINIMUMS	KPDT	PENDLETON	OR (US)

REMARKS:
PAT 2 DEVELOPED AT ATC REQUEST.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
KPDT MAG VAR 16E/2005

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TAKE OFF MINIMUMS		6	KPDT	PENDLETON	OR (US)
DP	LAVAA			KPDX	PORTLAND	OR (US)
DP	REDMOND			KRDM	REDMOND	OR (US)
DP	TRI-CITIES			KPSC	PASCO	WA (US)
DP	SPOKANE			KGEG	SPOKANE	WA (US)
DP	FELTS			KSFF	SPOKANE	WA (US)
DP	WALLA WALLA			KALW	WALLA WALLA	WA (US)
DP	NACHES			KYKM	YAKIMA	WA (US)
EN ROUTE	J16					(US)
EN ROUTE	J20					(US)
EN ROUTE	V112					(US)
EN ROUTE	V298					(US)
EN ROUTE	V4					(US)
EN ROUTE	V536					(US)
IAP	RNAV (GPS)-B		3	KHRI	HERMISTON	OR (US)
IAP	VOR/DME-A		4	KHRI	HERMISTON	OR (US)
IAP	NDB-B			KLGD	LA GRANDE	OR (US)
IAP	ILS OR LOC/DME RWY 25		1	KPDT	PENDLETON	OR (US)
IAP	RNAV (GPS) 07			KPDT	PENDLETON	OR (US)
IAP	RNAV (GPS) RWY 11			KPDT	PENDLETON	OR (US)
IAP	RNAV (GPS) RWY 25		5	KPDT	PENDLETON	OR (US)
IAP	RNAV (GPS) RWY 29			KPDT	PENDLETON	OR (US)
IAP	VOR RWY 07		1	KPDT	PENDLETON	OR (US)
IAP	ILS OR LOC RWY 21R			KPSC	PASCO	WA (US)
IAP	RNAV (GPS) RWY 30			KPSC	PASCO	WA (US)
IAP	VOR RWY 21R			KPSC	PASCO	WA (US)
IAP	VOR/DME RWY 30			KPSC	PASCO	WA (US)

QUALITY CHECKED 3

IAP	VOR RWY 26	KRLD	RICHLAND	WA (US)
STAR	BONVL	KPDX	PORTLAND	OR (US)
STAR	CHINS	KSEA	SEATTLE	WA (US)
STAR	WHYTE	KTCM	TACOMA	WA (US)

REQUIRED CHARTING: DP, STAR, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15 **DATE OF REVISION:** 01/13/2011

REASON FOR REVISION:
UPDATED PAT 1 200 KNOT AND 310 KNOT PATTERNS CONTROLLING OBSTACLES (MIN HOLDING ALTITUDE DID NOT CHANGE.
UPDATED PAT 4 CONTROLLING OBSTACLE (MIN HOLDING ALTITUDE DID NOT CHANGE).
UPDATED PAT 5 310 KNOT PATTERN CONTROLLING OBSTACLE (MIN HOLDING ALTITUDE DID NOT CHANGE).
REMOVED PRECIPITOUS TERRAIN ADDITIONS OF 0 FROM PATTERN 1-6.
REMOVED KALW ILS OR LOC Y & Z RWY 20 FROM FIX USE, ONLY MENTION OF PDT ON THE PROCEDURES WAS THE ALTIMETER SOURCE.
REMOVED HI-ILS AND HI TACAN RWY 5 AT SPOKANE/FAIRCHILD PROCEDURES NO LONGER PUBLISHED REMOVED MILITARY IAP FROM FIX CHARTING.
UPDATED FIX USE

DEVELOPED BY: **DATE:** 06/22/2010 **OFFICE:** AVN-130 **NAME:** ANDREW FIELDS

APPROVED BY: **DATE:** 11/18/2010 **OFFICE:** AVN-130 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZSE
ATC FACILITY: CHINOOK APP CON
OTHER: PDT ATCT

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: RIVRR **STATE:** OR **COUNTRY:** US

LATITUDE/LONGITUDE: 453404.55N/1222822.20W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CASCADE (RNAV)			KPDX	PORTLAND	OR (US)
DP	HRMNS (RNAV)			KPDX	PORTLAND	OR (US)
DP	LAVAA (RNAV)			KPDX	PORTLAND	OR (US)
DP	MINNE (RNAV)			KPDX	PORTLAND	OR (US)
DP	WHAMY (RNAV)			KPDX	PORTLAND	OR (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 08/27/2009

REASON FOR REVISION:
REMOVED FAC 1. WP REFERENCE NO LONGER REQUIRED FOR 8260-2 REPORTS FORMAT.

DEVELOPED BY: **DATE:** 03/27/2009 **OFFICE:** AVN-130 **NAME:** KEITH SHYKES

APPROVED BY: **DATE:** 06/29/2009 **OFFICE:** AVN-130 **NAME:** RICK WEBB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY: PDX APP CON
OTHER:

QUALITY CHECKED 3

RADIO FIX AND HOLDING DATA RECORD INFO ONLY

NAME: YAKIMA VORTAC **STATE:** WA **COUNTRY:** US

LATITUDE/LONGITUDE: 463412.87N/1202640.69W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	YAKIMA	YKM	VORTAC	H							45000

FIX RESTRICTIONS:
MCA V204 5300 WESTBOUND
MCA V448 9500 SOUTHWEST BOUND

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	E	YKM	VORTAC	108.00	288.00	L	1		4600	12000	5	9
2	W	YKM	VORTAC	288.00	108.00	R	1		4400	12000	5	9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (53-020852)	463804.47N/1202423.70W	3054	5E
1	310	AAO	463713.20N/1201410.00W	4252	6A
2	200	AAO	463751.00N/1202427.00W	2743	4E

REASON FOR NONSTANDARD HOLDING:
PAT 1 AVOID R-6714

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ZILLA	KYKM	YAKIMA	WA (US)
1	ILS Z RWY 27	KYKM	YAKIMA	WA (US)
1	ILS Y RWY 27	KYKM	YAKIMA	WA (US)
1	LOC/DME BC-B	KYKM	YAKIMA	WA (US)
1	VOR/DME OR TACAN RWY 27	KYKM	YAKIMA	WA (US)
1	VOR-A	KYKM	YAKIMA	WA (US)

REMARKS:
PAT 2 USED BY ATC
PAT 1 C-I-H OBSTACLE 4690 FEET INTO SECONDARY, PRIMARY EQUIVALENT 3559.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	LAVAA			KPDX	PORTLAND	OR (US)
DP	PORTLAND			KPDX	PORTLAND	OR (US)
DP	RIVER			KPDX	PORTLAND	OR (US)
DP	PAINE			KPAE	EVERETT	WA (US)
DP	MOSES			KMWH	MOSES LAKE	WA (US)
DP	YELM			KOLM	OLYMPIA	WA (US)
DP	TRI-CITIES			KPSC	PASCO	WA (US)
DP	KENT			KBFI	SEATTLE	WA (US)
DP	NEEDLE			KBFI	SEATTLE	WA (US)
DP	MOUNTAIN			KSEA	SEATTLE	WA (US)
DP	SEATTLE			KSEA	SEATTLE	WA (US)
DP	SPOKANE			KGEG	SPOKANE	WA (US)
DP	FELTS			KSFF	SPOKANE	WA (US)
DP	WALLA WALLA			KALW	WALLA WALLA	WA (US)
DP	GROMO			KYKM	YAKIMA	WA (US)
DP	NACHES			KYKM	YAKIMA	WA (US)
DP	WENAS			KYKM	YAKIMA	WA (US)
DP	YAKIMA			KYKM	YAKIMA	WA (US)
DP	ZILLA			KYKM	YAKIMA	WA (US)
EN ROUTE	J136					(US)
EN ROUTE	J20					(US)
EN ROUTE	V204					(US)
EN ROUTE	V25					(US)
EN ROUTE	V298					(US)
EN ROUTE	V4					(US)
EN ROUTE	V448					(US)
EN ROUTE	V468					(US)
IAP	ILS Y RWY 27		1	KYKM	YAKIMA	WA (US)

QUALITY CHECKED 3

IAP	ILS Z RWY 27	1	KYKM	YAKIMA	WA (US)
IAP	LOC/DME BC-B	1	KYKM	YAKIMA	WA (US)
IAP	RNAV (RNP) Y RWY 9		KYKM	YAKIMA	WA (US)
IAP	RNAV (RNP) Z RWY 9		KYKM	YAKIMA	WA (US)
IAP	VOR-A	1	KYKM	YAKIMA	WA (US)
IAP	VOR/DME OR TACAN RWY 27	1	KYKM	YAKIMA	WA (US)
STAR	CHINS		KBFI	SEATTLE	WA (US)
STAR	CHINS		KSEA	SEATTLE	WA (US)
STAR	ZOOMR		KGEG	SPOKANE	WA (US)
STAR	ZOOMR		KSFF	SPOKANE	WA (US)
STAR	ZOOMR		KSKA	SPOKANE	WA (US)
STAR	WHYTE		KTCM	TACOMA	WA (US)

REQUIRED CHARTING: DP, STAR, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: LOW

RECORD REVISION NUMBER: 13 **DATE OF REVISION:** 04/05/2012

REASON FOR REVISION:
1. UPDATED HOLDING PAT 1 200 KIAS OBSTACLE.
2. DELETED PAT 1 CONTROLLING OBSTACLE, 4D AC VERIFIED VIA FLIGHT CHECK REMARK.

DEVELOPED BY: **DATE:** 10/28/2011 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (JOHN LINDSEY)

APPROVED BY: **DATE:** 12/19/2011 **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY: YKM APP CON
OTHER:

Federal Aviation Administration

Memorandum

Date:

To: Dick Powell Manager, National Flight Data Center, AJV-21

From: Dez Silagyi, Manager, Terminal Procedures & Charting Services, Western Team, AJV-354

Subject: **ACTION:** Magnetic Variation Change

The Magnetic Variation (MV) data for the airport(s) and/or facility(s) listed under the "Airport/Facility" column will be revised effective concurrent with the publication of the procedure(s) listed below.

HI-ILS OR LOC/DME RWY 28R AMDT 3
LOC/DME RWY 21 AMDT 9
ILS OR LOC RWY 10L AMDT 4
ILS OR LOC RWY 28L AMDT 3
ILS OR LOC RWY 28R AMDT 15
RNAV (GPS) Y RWY 10L AMDT 2
RNAV (GPS) Y RWY 10R AMDT 2
RNAV (GPS) X RWY 28L AMDT 2
RNAV (GPS) X RWY 28R AMDT 2
RNAV (RNP) Z RWY 28L AMDT 1
RNAV (RNP) Y RWY 28L AMDT 1
RNAV (RNP) Z RWY 28R AMDT 1
RNAV (RNP) Y RWY 28R AMDT 1
RNAV (RNP) Z RWY 10L ORIG
RNAV (RNP) Z RWY 10R ORIG
TAKE-OFF MINIMUMS AMDT 8
HRMNS (RNAV) THREE SID
LAVAA (RNAV) FIVE SID
MINNE (RNAV) FOUR SID
WHAMY (RNAV) THREE SID
CASCADE (RNAV) ONE SID
PORTLAND EIGHT SID
RIVER EIGHT SID

Estimated Chart Change Date: 09/20/2012

Please publish these changes in the National Flight Data Digest.

CONCURRENCES	
ROUTING SYMBOL	AJV-34 SBaker
INITIALS/SIG	
DATE	
ROUTING SYMBOL	AJV-354 Lead
INITIALS/SIG	
DATE	
ROUTING SYMBOL	AJV-354 DSilagyi
INITIALS/SIG	
DATE	
ROUTING SYMBOL	AJV-341 C Zuest
INITIALS/SIG	
DATE	
ROUTING SYMBOL	
INITIALS/SIG	
DATE	

OREGON

Location	Name	Airport /Facility	Identifier	Assigned Magnetic Variation Value	Epoch Year
PORTLAND	PORTLAND INTL	Airport	KPDX/PDX	Old 20 ° East New 16 ° East	2010
PORTLAND	PORTLAND INTL	LOC (CAT I)	I-GPO	Old 20 ° East New 16 ° East	2010
PORTLAND	PORTLAND INTL	ILS (CAT I)	I-VDG	Old 20 ° East New 16 ° East	2010
PORTLAND	PORTLAND INTL	ILS (CAT I)	I-IAP	Old 20 ° East New 16 ° East	2010
PORTLAND	PORTLAND INTL	ILS (CAT I)	I-JMJ	Old 20 ° East New 16 ° East	2010

If you have any questions please notify Dez Silagyi (405-954-9977).

CC SEA-FPT, AJV-3rf
AJV-354:DSilagyi:sjb:x7537:4/17/2012: (U:\AVN100\100Public\MAGVAR\MAGVAR Letters 2012\MV Change Request for Portland, OR (KPDX).doc)