US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
CIZZL (IAF)	DAYSS (TF) (FB) (RNP 1.00)	283.18 / 3.99	4500
DAYSS (IF)	RIPPP (RF) (FB) (RNP 1.00)	(2.51 NM RADIUS CCW (CFFWG)/3.46	3500
VOODU (IAF)	RIPPP (TF) (FB) (RNP 1.00)	204.41 / 5.00	3500
RIPPP (IF)	TTIDE (RF) (FB) (RNP 1.00)	(2.51 NM RADIUS CCW (CFFWG)/4.45	2300
MYCRO (IAF)	GAMBE (TF) (FB) (RNP 1.00)	328.06 / 4.58	4000
(SEE FORM 8260-10)			

MISSED APPROACH

RNP: DA

CLIMB TO 800 THEN CLIMBING LEFT TURN TO 4200 DIRECT BTG VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4200.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT BLAZR
3. FAC: 102.94 FAF: ____ DIST FAF TO MAP: ____ THLD: ____
4. MIN. ALT: BLAZR 2000
5. DIST TO THLD FROM OM: 6.03 MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 2000 GS ALT AT: BLAZR 2000 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 49.3# 34:1 IS CLEAR
8. MSA FROM: RW10L 5800

ADDITIONAL FLIGHT DATA:
HOLD N, RT, 165.00 INBOUND.
DISTANCE TO THLD FROM 335 HATH: 0.90 NM.
ROUTE TYPE: A,H
ROUTE TYPE QUALIFIER1: F
ROUTE TYPE QUALIFIER2: S
#TCH 79.1 MSL (DO NOT CHART)
CHART LOC RWY 10R
CHART KVUO IN PLANVIEW
CHART AT/ABOVE 5000 AT CIZZL
CHART MANDATORY 5000 AT MYCRO
CHART MANDATORY 5000 AT VOODU

MAG VAR: 16E EPOCH YEAR: 2010

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT ALTERNATE: N A STANDARD

CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
AUTHORIZATION REQUIRED															
RNP 0.30 DA	365	3200	335	365	3200	335	365	3200	335	365	3200	335			

NOTES:
CHART NOTE: GPS REQUIRED.
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE RNP 0.30 ALL CATS VISIBILITY TO RVR 5500
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
CHART PLANVIEW NOTE: RADAR REQUIRED
(SEE FORM 8260-10)

QUALITY CHECKED

CITY AND STATE	ELEVATION: 31 THRE: 30 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
PORTLAND, OR	PORTLAND INTL	RNAV	RNAV (RNP) Z RWY 10L, ORIG-A	AMDT: ORIG
				DATED 09/20/2012

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[ ] YES [X] NO		**ROUTINE**

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[X]	[ ]	[X]	[X]	[X]	[X]	[X] **ZSE, PDX ATCT, ARPT MGR, ST AERO**

FLIGHT CHECKED BY		
NAME: **SCOTT ANDREW THOMPSON**	FIFO **FIOG**	DATE: **07/25/2012**
DEVELOPED BY		
NAME: **TRACEY STILES**	FIFO **AJV-354**	DATE: **09/26/2012**
APPROVED BY		
NAME: **DEZ SILAGYI** **MANAGER**	FIFO **AJV-354**	DATE:

CHANGES:

1. ADDITIONAL FLIGHT DATA: ADDED CHART AT/ABOVE 5000 AT CIZZL; CHART MANDATORY 5000 AT MYCRO AND CHART MANDATORY 5000 AT VOODU

REASONS:

1. PER ATC REQUEST

QUALITY CHECKED

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
GAMBE (IF)	TTIDE (RF) (FB) (RNP 1.00)	(2.50 NM RADIUS CW (CFFWH)/5.88	2300
BUXOM (IF)	TRAYL (TF) (FB) (RNP 1.00)	102.84 / 3.72	2300
TRAYL	TTIDE (TF) (FB) (RNP 1.00)	102.90 / 2.03	2300
TTIDE	BLAZR (TF) (FB) (RNP 0.40)	102.93 /0.97	2000
BLAZR (FAF)	RW10L (MAP) (TF) (FO)	102.94 / 6.03	
RW10L (MAP)	800 MSL (CA)	102.94	800
800 MSL	BTG VORTAC (DF) (FO)		4200

NOTES, (CONT.):
CHART PLANVIEW NOTE AT CIZZL, VOODU, AND MYCRO: MAX 210 KIAS
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -15C (5F) OR ABOVE 54C (130F)
CHART PLANVIEW NOTE ADJACENT TO CIZZL IAF: RF REQUIRED
CHART PLANVIEW NOTE ADJACENT TO MYCRO IAF: RF REQUIRED
CHART PLANVIEW NOTE ADJACENT TO VOODU IAF: RF REQUIRED
CHART PLANVIEW NOTE AT VOODU: (RNP 0.40)
CHART PLANVIEW NOTE AT CIZZL: (RNP 0.40)
CHART PLANVIEW NOTE AT BUXOM: (RNP 0.40)
CHART PLANVIEW NOTE AT MYCRO: (RNP 0.40)
CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 10R

QUALITY CHECKED

CITY AND STATE	ELEVATION: 31 THRE: 30	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
PORTLAND, OR	AIRPORT NAME: PORTLAND INTL	RNAV	RNAV (RNP) Z RWY 10L, ORIG-A	AMDT: ORIG
				DATED: 09/20/2012

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

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ARINC PACKET - 424-18 - RNAV (RNP)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        BTG   K1011660VTHW N45445212W122352953    N45445163W122353227E0210002532     NARBATTLE GROUND

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BLAZR K10    C     N45383662W122431524                      E0160     NAR           BLAZR
        SUSAEAENRT   BUXOM K10    C     N45415127W122513838                      E0161     NAR           BUXOM
        SUSAEAENRT   CFFWG K10    W     N45411690W122424403                      E0161     NAR           CNF(CFFWG)
        SUSAEAENRT   CFFWH K10    W     N45365361W122461149                      E0160     NAR           CNF(CFFWH)
        SUSAEAENRT   CIZZL K10    W     N45413202W122360067                      E0160     NAR           CIZZL
        SUSAEAENRT   DAYSS K10    W     N45432867W122405923                      E0161     NAR           DAYSS
        SUSAEAENRT   GAMBE K10    W     N45361241W122493694                      E0160     NAR           GAMBE
        SUSAEAENRT   MYCRO K10    W     N45314813W122474943                      E0160     NAR           MYCRO
        SUSAEAENRT   RIPPP K10    W     N45425448W122452820                      E0161     NAR           RIPPP
        SUSAEAENRT   TRAYL K10    C     N45400367W122465988                      E0161     NAR           TRAYL
        SUSAEAENRT   TTIDE K10    W     N45390488W122442813                      E0160     NAR           TTIDE
        SUSAEAENRT   VOODU K10    W     N45464284W122405082                      E0161     NAR           VOODU

                 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 KPDXK1FH10LZ ABUXOM 010BUXOMK1EA0E  B    IF                                          18000                A FS
        SUSAP KPDXK1FH10LZ ABUXOM 020TRAYLK1EA0E    010TF                                  + 02300                         A FS
        SUSAP KPDXK1FH10LZ ABUXOM 030TTIDEK1EA0EE   010TF                                  + 02300                         A FS
        SUSAP KPDXK1FH10LZ ACIZZL 010CIZZLK1EA0E  A    IF                                  + 05000     18000210            A-FS
        SUSAP KPDXK1FH10LZ ACIZZL 020DAYSSK1EA0E  B 010TF                                  + 04500                         A FS
        SUSAP KPDXK1FH10LZ ACIZZL 030RIPPPK1EA0E   L010RF       0025102832    20440035     + 03500                CFFWG K1EAA FS
        SUSAP KPDXK1FH10LZ ACIZZL 040TTIDEK1EA0EE  L010RF       0025102044    10290045     + 02300                CFFWG K1EAA FS
        SUSAP KPDXK1FH10LZ AMYCRO 010MYCROK1EA0E  A    IF                                    05000     18000210            A-FS
        SUSAP KPDXK1FH10LZ AMYCRO 020GAMBEK1EA0E  B 010TF                                  + 04000                         A FS
        SUSAP KPDXK1FH10LZ AMYCRO 030TTIDEK1EA0EE  R010RF       0025003281    10290059     + 02300                CFFWH K1EAA FS
        SUSAP KPDXK1FH10LZ AVOODU 010VOODUK1EA0E  A    IF                                    05000     18000210            A-FS
        SUSAP KPDXK1FH10LZ AVOODU 020RIPPPK1EA0E  B 010TF                                  + 03500                         A FS
        SUSAP KPDXK1FH10LZ AVOODU 030TTIDEK1EA0EE  L010RF       0025102044    10290045     + 02300                CFFWG K1EAA FS
        SUSAP KPDXK1FH10LZ H      010TTIDEK1EA0E  I    IF                                  + 02300     18000               A FS
        SUSAP KPDXK1FH10LZ H      020BLAZRK1EA1E  F 041TF                                  + 02000                RW10L K1PGA FS
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 31 THRE: 30	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
PORTLAND, OR	AIRPORT NAME: PORTLAND INTL	RNAV	RNAV (RNP) Z RWY 10L, ORIG-A	AMDT: ORIG
				DATED: 09/20/2012

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER ☐ (specify) _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

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```
        SUSAP KPDXK1FH10LZ H      020BLAZRK1EA2W                                          A031                      FS
        SUSAP KPDXK1FH10LZ H      030RW10LK1PG0GY M 031TF                              00079          -300        A FS
        SUSAP KPDXK1FH10LZ H      040         0  M     CA                  1029      + 00800                      A FS
        SUSAP KPDXK1FH10LZ H      050BTG  K1D 0VY  L   DF                            + 04200                      A FS
        SUSAP KPDXK1FH10LZ H      060BTG  K1D 0VE  R   HM                  16500050  + 04200                      A FS
```

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

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KPDXK1SRW10LK1PG                0   18018005825                                                                    M
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 31 THRE: 30	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
PORTLAND, OR	AIRPORT NAME: PORTLAND INTL	RNAV	RNAV (RNP) Z RWY 10L, ORIG-A	AMDT: ORIG
				DATED: 09/20/2012

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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ARINC SUMMARY - 424-18 - RNAV (RNP)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	BUXOM	BUXOM	010		IF		FB					
	BUXOM	TRAYL	020		TF		FB	1.0			AA 02300	
	BUXOM	TTIDE	030		TF		FB	1.0			AA 02300	
	CIZZL	CIZZL	010	IAF	IF		FB				AA 05000	AB 210
	CIZZL	DAYSS	020		TF		FB	1.0			AA 04500	
	CIZZL	RIPPP	030		RF	L	FB	1.0		003.5	AA 03500	
	CIZZL	TTIDE	040		RF	L	FB	1.0		004.5	AA 02300	
	MYCRO	MYCRO	010	IAF	IF		FB				AT 05000	AB 210
	MYCRO	GAMBE	020		TF		FB	1.0			AA 04000	
	MYCRO	TTIDE	030		RF	R	FB	1.0		005.9	AA 02300	
	VOODU	VOODU	010	IAF	IF		FB				AT 05000	AB 210
	VOODU	RIPPP	020		TF		FB	1.0			AA 03500	
	VOODU	TTIDE	030		RF	L	FB	1.0		004.5	AA 02300	
		TTIDE	010	FACF	IF		FB				AA 02300	
		BLAZR	020	FAF	TF		FB	0.4			AA 02000	
		RW10L	030	MAP	TF		FO	0.3			AT 00079	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		102.9(118.9T)		AA 00800	
	BTG	050		DF	L	FO				AA 04200	
	BTG	060		HM	R	FO		165.0(181.0T)	005.0	AA 04200	

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
BTG	N454452.12	W1223529.53	N4544.869	W12235.492
BLAZR	N453836.62	W1224315.24	N4538.610	W12243.254
BUXOM	N454151.27	W1225138.38	N4541.855	W12251.640
CFFWG	N454116.90	W1224244.03	N4541.282	W12242.734
CFFWH	N453653.61	W1224611.49	N4536.894	W12246.192
CIZZL	N454132.02	W1223600.67	N4541.534	W12236.011
DAYSS	N454328.67	W1224059.23	N4543.478	W12240.987
GAMBE	N453612.41	W1224936.94	N4536.207	W12249.616
MYCRO	N453148.13	W1224749.43	N4531.802	W12247.824
RIPPP	N454254.48	W1224528.20	N4542.908	W12245.470
TRAYL	N454003.67	W1224659.88	N4540.061	W12246.998
TTIDE	N453904.88	W1224428.13	N4539.081	W12244.469
VOODU	N454642.84	W1224050.82	N4546.714	W12240.847
RW10L	N453541.28	W1223544.19	N4535.688	W12235.737

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH

QUALITY CHECKED

CITY AND STATE	ELEVATION: 31	THRE: 30	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
PORTLAND, OR	AIRPORT NAME: PORTLAND INTL		RNAV	RNAV (RNP) Z RWY 10L, ORIG-A	AMDT: ORIG
					DATED: 09/20/2012

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

RW10L 00030 49

QUALITY CHECKED 4

CITY AND STATE	ELEVATION: 31 THRE: 30	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
PORTLAND, OR	AIRPORT NAME: PORTLAND INTL	RNAV	RNAV (RNP) Z RWY 10L, ORIG-A	AMDT: ORIG
				DATED: 09/20/2012

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
INITIAL	CIZZL	DAYSS	1. AAO	454403.00N/1223836.00W	712 (4E)	1000	AC98 AT2690	4500
(RNP 1.00)			2. TERRAIN	454403.00N/1223836.00W	512 (500)		AS1500	2000
INTERMEDIATE	DAYSS	RIPPP	1. AAO	454403.00N/1223836.00W	712 (4E)	500	AC98 AT2190	3500
(RNP 1.00)			3. TERRAIN	454454.00N/1224109.00W	368 (400)		AS1500	1900
INITIAL	VOODU	RIPPP	4. AAO	454624.00N/1224124.00W	719 (4E)	1000	AC98 AT1683	3500
(RNP 1.00)			5. TERRAIN	454624.00N/1224124.00W	519 (500)		AS1500	2000
INTERMEDIATE	RIPPP	TTIDE	6. AAO	454127.00N/1224409.00W	296 (4E)	500	AC98 AT1406	2300
(RNP 1.00)			7. TERRAIN	454127.00N/1224421.00W	96 (100)		AS1500	1600
INITIAL	MYCRO	GAMBE	8. TOWER (41-000395)	453121.42N/1224511.35W	2049 (5D)	1000	AC50 AT901	4000
(RNP 1.00)			9. TERRAIN	453251.00N/1224557.00W	1277 (1300)		AS1500	2800
INTERMEDIATE	GAMBE	TTIDE	10. AAO	453530.00N/1224854.00W	1323 (4E)	500	AC98 AT379	2300
(RNP 1.00)			11. TERRAIN	453633.00N/1224948.00W	1093 (1100)		AS1000	2100
INTERMEDIATE	BUXOM	TRAYL	12. AAO	454039.00N/1225415.00W	1195 (4E)	500	AC98 AT507	2300
(RNP 1.00)			13. TERRAIN	454006.00N/1225303.00W	332 (300)		AS1500	1800
2. PROCEDURE TURN	NA							
3. MISSED APPROACH MAP:	DA	BTG VORTAC				ASC		4200
			19. AAO	453915.00N/1222724.00W	1011 (3E)	1000	AC128	2200
ELEV:	204		20. TERRAIN	453915.00N/1222724.00W	811 (800)	1500		2300

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	
CATEGORY B	1.5 NM	450	
CATEGORY C	1.7 NM	450	
CATEGORY D	2.3 NM	550	
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW10L

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	AAO	037/ 28.7	4760 (6C)	5800					

CITY AND STATE	ELEVATION: 31 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
PORTLAND, OR	PORTLAND INTL	RNAV	RNAV (RNP) Z RWY 10L, ORIG-A	ANM

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE		3. ALTIMETER SETTING
ZSE ARTCC PDX APP CON PDX TOWER	N W S	OTHER: ASOS	SOURCE: KPDX
	F A A		DISTANCE: 0
SATISFACTORY ON:	A / C		HOURS REMOTE OPERATION: 0
X V H F X U H F H F	LOCATION: KPDX		ADJUSTMENT: 0

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN: CAT 1	
	HRS OPTN: CAT 3	
5. APPROACH & RUNWAY LIGHTING	X	ALSF-2 10R
		(S) SALS
	X	MALSR 10L, 28R, 28L
	X	HIRL 10L, 10R, 28R, 28L
	X	MIRL 21, 03
	X	REIL 21, 03
	X	TDZ 10R
	X	C/L 10L, 10R, 28R, 28L
	X	OTHER (SPECIFY) PAPI-4R 21, 10R, 28R PAPI-4L 10L, 03, 28L
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-G 10L, 10R, 28R, 28L
	INSTRUMENT	NPI-G 21, 03
7. RUNWAY VISUAL RANGE	APPROACH	10L, 10R, 28R, 28L
	MIDFIELD	10L, 10R, 28R, 28L
	ROLL OUT	10L, 10R, 28R, 28L
8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 29.8
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 49.3
9. FINAL APPROACH COURSE AIMING	X	RUNWAY THRESHOLD — FT. FROM THRESHOLD
	X	ON CENTERLINE — FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: TRACEY STILES	DATE: 09/26/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-354

PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

NO ADDTIONAL AIRSPACE REQUIRED.

MISSED APPROACH IAW 8260.54A, IPDS BUILD
25 DEGREE BANK ANGLE USED IN MISSED APPROACH TO ALLOW FOR MINIMUM SEGMENT LENGTH

ACT: -15, HISTORICAL WEATHER NOT AVAILABLE
"AVERAGE COLD TEMPERATURE BASED ON STANDARD -30C ISA DEVIATION"
DELTA ISA LOW: -29.9384

VEB ROC APPLIED/USED.
VEB DATA: SEE ATTACHED SPREADSHEETS.

BACK-UP ALTIMETER NOT PUBLISHED, REDUNDANT REPORTING ON AIRPORT.

VGSI DATA: 3.00/51.0

VEGETATION HEIGHTS PROVIDED BY I-TEN PHOTOGRAMMETRY DIVISION THROUGH PORT OF PORTLAND AND FPT.
WASHINGTON SIDE OF THE COLUMBIA RIVER: 85 FT.
OREGON SIDE OF THE COLUMBIA RIVER: 75 FT.
GOVERNMENT ISLAND: 130 FT

RF SEGMENT RADIUS/BANK ANGLE COMPUTATIONS:
SEGMENT ALT KIAS KTAS HAA VKTW* TR BA
GAMBE- TTIDE 4000 210 226.80 3969.2 50.0 2.50 24.09
DAYSS-RIPPP 4500 210 228.90 4469.2 52.0 2.51 (15279.63FT) 24.60
RIPPP-TTIDE 3500 210 224.70 3469.2 51.0 2.51 (15279.63FT) 23.80
*VKTW: OBTAINED FROM HISTORICAL WIND DATA (MITRE)

MAX SPEED MYCRO TO GAMBE - 210 KIAS
MAX SPEED GAMBE TO TTIDE - 210 KIAS
MAX SPEED TTIDE TO BLAZR - 210 KIAS
MAX SPEED VOODU TO RIPPP - 210 KIAS

APPLIED PBN MEMO 10/3/11 TO REMAIN UNDER 25 DEGREES FOR RF LEGS

PROCEDURE ENTRY NOT CONNECTED TO ENROUTE STRUCTURE PER AIR TRAFFIC/LEAD AIR CARRIER FOR FUTURE STARS. RADAR REQUIRED.

QUALITY & CHECKED

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
INTERMEDIATE:	TRAYL	TTIDE	14. AAO	454024.00N/1224157.00W	289 (4E)	500	AC98 AT1413	2300
STEPDOWN			15. TERRAIN	454136.00N/1224506.00W	89 (100)		AS1500	1600
(RNP 1.00)								
INTERMEDIATE:	TTIDE	BLAZR	16. T-L TWR	453828.00N/1224244.00W	542 (4D)	500	AC50 AT908	2000
STEPDOWN			(53-000456)					
(RNP 0.40)			17. TERRAIN	453900.00N/1224412.00W	86 (100)		AS1500	1700
FINAL: RNP 0.30	BLAZR	RW10L				ASC	MA75	365/335
MISSED APPROACH	DA	RW10L	18. CTRL TWR (41-020289)	453515.16N/1223520.69W	291 (1A)	ASC	AC3	
(RNP 0.30-1.00)		(40:1)						
MISSED APPROACH	RW10L	DPK VOR/DME				ASC		
(RNP 0.30-1.00)								

3. MISSED APPROACH									
	MAP:								
	ELEV:								

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	
CATEGORY B	1.5 NM	450	
CATEGORY C	1.7 NM	450	
CATEGORY D	2.3 NM	550	
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES PRIMARY NAVAID:

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
PORTLAND, OR	ELEVATION: 31 AIRPORT NAME: PORTLAND INTL	RNAV	RNAV (RNP) Z RWY 10L, ORIG-A	ANM

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:			2. WEATHER SERVICE			3. ALTIMETER SETTING
SATISFACTORY ON:				N W S	OTHER:	SOURCE:
				F A A		DISTANCE:
				A / C		HOURS REMOTE OPERATION:
V H F	U H F	H F	LOCATION:			ADJUSTMENT:

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN:	CAT 1
		CAT 3
5. APPROACH & RUNWAY LIGHTING		**ALS**
		(S) SALS
		MALS
		HIRL
		MIRL
		REIL
		TDZ
		C/LINE
		OTHER (SPECIFY)
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:
9. FINAL APPROACH COURSE AIMING	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS:

PART D - PREPARED BY:	DATE:
TITLE:	OFFICE:

PART C - REMARKS: