US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

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TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
CARBY	ZIREX (FB)	211.27 / 16.18	6100
MAVER	WALAP (FB)	015.90 / 14.92	3800
ZIREX (IAF)	NACIY (FB)	211.08 / 6.00	3700
WALAP (IAF)	NACIY (FB)	010.04 / 10.53	3700
NACIY (IF)	OMMSI (FB)	283.22 / 3.39	2900
OMMSI	TOLOC (FB)	283.17 / 3.00	2000
TOLOC (FAF)	WUGPU/3.00 NM TO RW28R (FB)	283.04 / 3.01	
(SEE FORM 8260-10)			

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW28R

CLIMB TO 600 THEN CLIMBING RIGHT 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 NACIY
3. FAC: 283.04 FAF: TOLOC DIST FAF TO MAP: 6.01 THLD: 6.01
4. MIN. ALT: NACIY 3700, OMMSI 2900, TOLOC 2000, WUGPU/3.00 NM TO RW28R 1040*
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 2000 GS ALT AT: TOLOC 2000 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 54.3 34:1 IS NOT CLEAR
8. MSA FROM: RW28R 5800

ADDITIONAL FLIGHT DATA:
HOLD N, RT, 165.00 INBOUND.
CHART FAS OBST: 295 COMMUNICATION TOWER 453326N/1223006W
DISTANCE TO THLD FROM 250 HATH: 0.61 NM.
WAAS CHANNEL # 60905
REFERENCE PATH ID: W28A
CHART LOC RWY 28L
LTP HAE: -13.4 M

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
LPV DA	281	5000	250	281	5000	250	281	5000	250	281	5000	250			
LNAV/VNAV DA	482	5200	451	482	5200	451	482	5200	451	482	5200	451			
LNAV MDA	560	5000	529	560	5000	529	560	5500	529	560	5500	529			
CIRCLING	720	1	689	740	1	709	760	2	729	980	3	949			

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F). @ CAT D 1000-3
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS AND LNAV CATS A/B.
CHART NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 28R PROCEDURE NA AT NIGHT.
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 1/2 MILE.
(SEE FORM 8260-10)

CITY AND STATE	ELEVATION: 31 THRE: 31	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 28R
PORTLAND, OR	AIRPORT NAME: PORTLAND INTL	RNAV	RNAV (GPS) X RWY 28R, AMDT 2 20 SEPTEMBER 2012	AMDT: 1A DATED 03/08/2012

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
WUGPU/3.00 NM TO RW28R	RW28R (MAP) (FO)	283.04 / 3.00	
RW28R (MAP)	600 MSL	283.04	600
600 MSL	BTG VORTAC (FO)		4200

NOTES, (CONT.):
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CARBY ON V112-182 EASTBOUND AND ON T276 EASTBOUND AND ARRIVALS AT MAVER ON V448 SOUTHBOUND AND ON V165 EASTBOUND.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.
*LNAV ONLY
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 28L.
CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.

CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.

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PORTLAND, OR	PORTLAND INTL	RNAV	RNAV (GPS) X RWY 28R, AMDT 2 20 SEPTEMBER 2012	AMDT: 1A DATED: 03/08/2012

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FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KPDX
RUNWAY	RW28R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	X
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W28A
LTP/FTP LATITUDE	453502.9425N
LTP/FTP LONGITUDE	1223405.8395W
LTP/FTP ELLIPSOIDAL HEIGHT	-00134
FPAP LATITUDE	453547.4540N
FPAP LONGITUDE	1223600.0580W
THRESHOLD CROSSING HEIGHT (TCH)	00054.3
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	103CC754

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+00094
FPAP ORTHOMETRIC HEIGHT	+00094

QUALITY CHECKED

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ARINC PACKET - 424-18 - RNAV (GPS)

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                 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   CARBY K10    C   L N45440596W121553167                      E0159     NAR           CARBY
        SUSAEAENRT   MAVER K10    R   L N45065430W122362567                      E0159     NAR           MAVER
        SUSAEAENRT   NACIY K10    C     N45290082W122184132                      E0159     NAR           NACIY
        SUSAEAENRT   OMMSI K10    C     N45304003W122225374                      E0160     NAR           OMMSI
        SUSAEAENRT   TOLOC K10    C     N45320759W122263709                      E0160     NAR           TOLOC
        SUSAEAENRT   WALAP K10    W     N45193367W122251537                      E0159     NAR           WALAP
        SUSAEAENRT   WUGPU K10    C     N45333552W122302186                      E0160     NAR           WUGPU
        SUSAEAENRT   ZIREX K10    W     N45330601W122122674                      E0159     NAR           ZIREX

                 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 KPDXK1FR28RX ACARBY 010CARBYK1EA0E       IF                                          18000                A JS
        SUSAP KPDXK1FR28RX ACARBY 020ZIREXK1EA0E  A 020TF                    21130162    + 06100                          A JS
        SUSAP KPDXK1FR28RX ACARBY 030NACIYK1EA0EE B 010TF                    21110060    + 03700                          A JS
        SUSAP KPDXK1FR28RX AMAVER 010MAVERK1EA0E       IF                                          18000                A JS
        SUSAP KPDXK1FR28RX AMAVER 020WALAPK1EA0E  A 020TF                    01590149    + 03800                          A JS
        SUSAP KPDXK1FR28RX AMAVER 030NACIYK1EA0EE B 010TF                    01000105    + 03700                          A JS
        SUSAP KPDXK1FR28RX R      010NACIYK1EA0E  I    IF                                + 03700     18000                A JS
        SUSAP KPDXK1FR28RX R      011OMMSIK1EA0E S  051TF                    28320034    + 02900                          A JS
        SUSAP KPDXK1FR28RX R      020TOLOCK1EA1E  F 051TF                    28320030    + 02000                 RW28R K1PGA JS
        SUSAP KPDXK1FR28RX R      020TOLOCK1EA2WALPV       ALNAV/VNAV ALNAV                                                JS
        SUSAP KPDXK1FR28RX R      021WUGPUK1EA0E S  031TF                    28300030    V 0104001040        -300         A JS
        SUSAP KPDXK1FR28RX R      030RW28RK1PG0GY M 031TF                    28300030      00085             -300         A JS
        SUSAP KPDXK1FR28RX R      040         0  M     CA                   2830        + 00600                          A JS
        SUSAP KPDXK1FR28RX R      050BTG  K1D 0VY  R   DF                                + 04200                          A JS
        SUSAP KPDXK1FR28RX R      060BTG  K1D 0VE  R   HM                    16500050    + 04200                          A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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CITY AND STATE	ELEVATION: 31 THRE: 31	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 28R
PORTLAND, OR	AIRPORT NAME: **PORTLAND INTL**	**RNAV**	**RNAV (GPS) X RWY 28R, AMDT 2** 20 SEPTEMBER 2012	AMDT: **1A** DATED: **03/08/2012**

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SUSAP KPDXK1GRW28R   0098252830 N45350294W122340584+0000     -0013400031053554150I

             1         2         3         4         5         6         7         8         9         0         1         2         3
PP     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
       ------------------------------------------------------------------------------------------------------------------------------------
       SUSAP KPDXK1PR28RX RW28R001X0000W28A0N4535029425W12234058395-001340300N4535474540W122360005801067500000000543F400500103CC754
       SUSAP KPDXK1PR28RX RW28R002E      +00094+00094LPV       60905

             1         2         3         4         5         6         7         8         9         0         1         2         3
MSA    123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
       ------------------------------------------------------------------------------------------------------------------------------------
       SUSAP KPDXK1SRW28RK1PG               0   18018005925                                                                          M
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PORTLAND, OR	PORTLAND INTL	RNAV	RNAV (GPS) X RWY 28R, AMDT 2 20 SEPTEMBER 2012	RNAV (GPS) RWY 28R
				AMDT: 1A
				DATED: 03/08/2012

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	CARBY	CARBY	010		IF		FB					
	CARBY	ZIREX	020	IAF	TF		FB	2.0	211.3(227.3T)	016.2	AA 06100	
	CARBY	NACIY	030		TF		FB	1.0	211.1(227.1T)	006.0	AA 03700	
	MAVER	MAVER	010		IF		FB					
	MAVER	WALAP	020	IAF	TF		FB	2.0	015.9(031.9T)	014.9	AA 03800	
	MAVER	NACIY	030		TF		FB	1.0	010.0(026.0T)	010.5	AA 03700	
		NACIY	010	FACF	IF		FB				AA 03700	
		OMMSI	011	SDF	TF		FB	0.5	283.2(299.2T)	003.4	AA 02900	
		TOLOC	020	FAF	TF		FB	0.5	283.2(299.2T)	003.0	AA 02000	
		WUGPU	021	SDF	TF		FB	0.3	283.0(299.0T)	003.0	AA 01040 GS 01040	
		RW28R	030	MAP	TF		FO	0.3	283.0(299.0T)	003.0	AT 00085	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		283.0(299.0T)		AA 00600	
	BTG	050		DF	R	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
	CARBY	N454405.96	W1215531.67	N4544.099	W12155.528
	MAVER	N450654.30	W1223625.67	N4506.905	W12236.428
	NACIY	N452900.82	W1221841.32	N4529.014	W12218.689
	OMMSI	N453040.03	W1222253.74	N4530.667	W12222.896
	TOLOC	N453207.59	W1222637.09	N4532.127	W12226.618
	WALAP	N451933.67	W1222515.37	N4519.561	W12225.256
	WUGPU	N453335.52	W1223021.86	N4533.592	W12230.364
	ZIREX	N453306.01	W1221226.74	N4533.100	W12212.446
	RW28R	N453502.94	W1223405.84	N4535.049	W12234.097

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW28R	00031	54

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