

RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				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										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE				ALTITUDE		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. ADDITIONAL FLIGHT DATA: HOLD N, RT, 165.00 INBOUND. CHART FAS OBST: 187 TREE 453529N/1223355W CHART: 300 TOWER 453330N/1222858W DISTANCE TO THLD FROM 250 HAT: 0.62 NM. CHART VDP AT 1.06 NM TO RW28R* *LNAV ONLY. WAAS CHANNEL # 60905 REFERENCE PATH ID: W28A CHART CIRCLING ICON. CHART MANDATORY 6700 AT SHAFR. LTP HAE: -13.4 M						
MAVER		CUKIS (TF) (FB) (RNP 2.00)		020.14 / 17.47				4000								
CUKIS (IAF)		NACIY (TF) (FB) (RNP 1.00)		359.37 / 8.32				3700								
SHAFR (IAF)		REEDI (TF) (FB) (RNP 1.00)		218.72 / 7.29				5700								
REEDI (IAF)		NACIY (TF) (FB) (RNP 1.00)		260.92 / 5.54				3700								
NACIY (IF)		OMMSI (TF) (FB) (RNP 1.00)		283.22 / 3.39				2900								
(SEE FORM 8260-10)																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT NACIY 3. FAC: 283.13 FAF: TOLOC DIST FAF TO MAP: 6.01 THLD: 6.01 4. MIN. ALT: NACIY 3700, OMMSI 2900, TOLOC 2000, WUGPU/3.70 NM TO RW28R 1260* 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 CLEAR 8. MSA FROM: RW28R 6000										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	2400	250	281	2400	250	281	2400	250	281	2400	250				
LNAV/VNAV DA	446	4500	415	446	4500	415	446	4500	415	446	4500	415				
LNAV MDA	440	2400	409	440	2400	409	440	4000	409	440	4000	409				
CIRCLING	720	1	689	760	1	729	1060	3	1029	1060	3	1029				
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -6C (22F) OR ABOVE 54C (130F). @ CAT C, D 1100-3 CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED. CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS. CHART NOTE: DME/DME RNP-0.3 NA. (CONTINUED ON PAGE 2)																
CITY AND STATE		ELEVATION: 31 TDZE: 31		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:						
PORTLAND, OR		AIRPORT NAME:		PORTLAND INTL		RNAV (GPS) X RWY 28R, AMDT 4				AMDT: 3						
						1 FEBRUARY 2018				DATED 06/25/2015						

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

**RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
OMMSI	TOLOC (TF) (FB) (RNP 1.00)	283.17 / 3.00	2000
TOLOC (FAF)	WUGPU/3.70 NM TO RW28R (TF) (FB) (RNP 0.30)	283.13 / 2.31	
WUGPU/3.70 NM TO RW28R	RW28R (MAP) (TF) (FO) (RNP 0.30)	283.13 / 3.70	
RW28R (MAP)	600 MSL (CA)	283.13	600
600 MSL	BTG VORTAC (DF) (FO) (RNP 1.00)		4200

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MAVER ON V448 SOUTHBOUND AND ON V165 EASTBOUND.

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.

CHART NOTE: FOR INOPERATIVE ALS INCREASE LNAV CAT C/D VISIBILITY TO RVR 6000.

CHART SPEED ICON IN PLANVIEW AT SHAFR : MAX 210 KIAS.

QUALITY
20
CHECKED

CITY AND STATE

PORTLAND, OR

ELEVATION: 31

TDZE: 31

AIRPORT NAME:

PORTLAND INTL

 FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) X RWY 28R, AMDT 4

1 FEBRUARY 2018

SUP:

AMDT: 3

DATED: 06/25/2015

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
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
 <u>CRC REMAINDER</u>	 103CC754

ADDITIONAL PATH POINT RECORD INFORMATION

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

QUALITY
20
CHECKED

CITY AND STATE PORTLAND, OR	ELEVATION: 31 AIRPORT NAME: PORTLAND INTL	TDZE: 31 PORTLAND INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) X RWY 28R, AMDT 4 1 FEBRUARY 2018	SUP:
					AMDT: 3
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