

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE  
TITLE 14 CFR PART 97.33

Bearings, headings, courses, tracks 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 feet RVR.

<u>AIRPORT ID</u> PDX	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 28R	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> PORTLAND	<u>STATE</u> OR
<u>AIRPORT ELEVATION</u> 31	<u>TDZE</u> 31	<u>SUPERSEDED</u> RNAV (RNP) Z RWY 28R	<u>DATED</u> 08/15/2019	<u>MAG VAR</u> 16E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 31 OCTOBER 2024	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 2010
				<u>CANCEL/SUSPEND</u>

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ROAGE	IF	BYKES		TF	FB	1.00	024.12	2.74	3200
BYKES		TOLOC	PFAF	RF	FB	1.00	(2.34 NM RADIUS CCW (CFBHP))	4.12	2000
NACIY	IF	OMMSI		TF	FB	1.00	283.22	3.39	2900
OMMSI		TOLOC	PFAF	TF	FB	1.00	283.17	3.00	2000
TOLOC	PFAF	RW28R	MAP	TF	FO	0.30	283.13	6.01	
RW28R	MAP	600 MSL		CA			283.13		600
600 MSL		BATYL		DF	FO	1.00			4400

MISSED APPROACH

MAP:  
RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 600 THEN CLIMBING RIGHT TURN TO 4400 DIRECT BATYL AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4400

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. PROFILE STARTS AT TOLOC					
3. FAC: 283.13	PFAF: TOLOC		DIST PFAF TO MAP:	DIST PFAF TO THLD:	
4. MIN ALT: TOLOC 2000					
5. DIST TO THLD FROM PFAF: 6.01	MM:	IM:	150 HAT:	291 HAT: 0.74	GS ANT:
6. MIN GP INCPT: 2000	GP ALT AT PFAF: TOLOC 2000			OM:	MM:
7. GP ANGLE: 3.00	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 54.3		IM:
8. MSA FROM: RW28R 5800					



PBN REQUIREMENTS NOTE:

RNP AR APCH - GPS. AUTHORIZATION REQUIRED. FROM BYKES: RF.

NOTES:

CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.  
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -5°C OR ABOVE 54°C.  
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.  
CHART NOTE: FOR INOPERATIVE ALS INCREASE RNP 0.10 ALL CATS VISIBILITY TO RVR 4500, INCREASE RNP 0.20 ALL CATS VISIBILITY TO RVR 5500, AND INCREASE RNP 0.30 ALL CATS VISIBILITY TO RVR 6000.  
CHART SPEED ICON IN PLANVIEW AT ROAGE: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD N, RT, 165.00 INBOUND.  
CHART AT OR ABOVE 4000 AT ROAGE.

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
AUTHORIZATION REQUIRED															
RNP 0.10 DA	322	2400	291	322	2400	291	322	2400	291	322	2400	291			
RNP 0.20 DA	400	3500	369	400	3500	369	400	3500	369	400	3500	369			
RNP 0.30 DA	451	4000	420	451	4000	420	451	4000	420	451	4000	420			



CHANGES - REASONS

1. WIDMR REMOVED FROM PROCEDURE. - ATC REQUEST.
2. IF ROAGES ADDED TO PROCEDURE. - ATC REQUEST.
3. TERMINAL ROUTE BYKES TO TOLOC DISTANCE CHANGED FROM 3.96 TO 4.12. - BYKES RELOCATED.
4. FINAL APPROACH COURSE CHANGED FROM 283.04 TO 283.13 - CORRECTED FROM END COURSE VALUE TO START COURSE VALUE.
5. PBN REQUIREMENTS NOTE CHANGED FROM RNP AR APCH TO RNP AR APCH - GPS. AUTHORIZATION REQUIRED. FROM BYKES: RF. - 8260.19J.
6. REMOVED CHART NOTE: RADAR REQUIRED. - PROCEDURE DOES NOT REQUIRE RADAR.
7. NOTE CHANGED FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -6°C OR ABOVE 54°C TO OR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -5°C OR ABOVE 54°C. - NEW TEMP DATA.
8. REMOVED NOTE ADJACENT TO WIDMR: RF REQUIRED. - WIDMR REMOVED FROM PROCEDURE.
- 9.REMOVED NOTE CHART SPEED ICON IN PLANVIEW AT WIDMR: MAX 210 KIAS. - WIDMR REMOVED FROM PROCEDURE.
10. CHANGED NOTE FROM FOR INOPERATIVE ALS INCREASE RNP 0.20 ALL CATS VISIBILITY TO 1 1/4 SM, AND INCREASE RNP 0.30 ALL CATS VISIBILITY TO 1 1/2 SM TO FOR INOPERATIVE ALS INCREASE RNP 0.10 ALL CATS VISIBILITY TO RVR 4500, INCREASE RNP 0.20 ALL CATS VISIBILITY TO RVR 5500, AND INCREASE RNP 0.30 ALL CATS VISIBILITY TO RVR 6000. - 8260.3E.
11. ADDED NOTE CHART SPEED ICON IN PLANVIEW AT ROAGE: MAX 210 KIAS. - ROAGE ADDED TO PROCEDURE.
12. REMOVED FROM ADDITIONAL FLIGHT DATA: #TCH 85.1 MSL (DO NOT CHART), CHART MANDATORY 5000 AT WIDMR, AND CHART FAS OBST: 174 TREE 453455N/1223243W, 184 TREE 453505N/1223257W. - NOW DOCUMENTED IN PROFILE, WIDMR REMOVED FROM PROCEDURE AND FAS OBSTACLE NOT DOCUMENTED IAW 8260.19J.
13. ADDED TO ADDITIONAL FLIGHT DATA CHART AT OR ABOVE 4000 AT ROAGE. - ROAGE ADDED TO PROCEDURE.
14. RNP 0.10 DA ADDED TO PROCEDURE - ATC REQUEST.
15. RNP 0.20 DA CHANGED DA/HAT FROM 417/386 TO 400/369 AND VISIBILITY FROM RVR 4000 TO RVR 3500. - NEW FINAL CONTROLLER IDENTIFIED.
16. RNP 0.30 DA CHANGED DA/HAT FROM 471/440 TO 451/420 AND VISIBILITY FROM RVR 5000 TO RVR 4000. - NEW FINAL CONTROLLER IDENTIFIED.
17. REMOVED NOTES: CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS. - NO LONGER REQUIRED, INCORPORATED INTO PBN REQUIREMENTS NOTE.
18. NOTE CHANGED FROM CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 28L TO CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED. - ATC REQUEST.
19. ADDITIONAL FLIGHT DATA REMOVED ROUTE TYPE: A, H, ROUTE TYPE QUALIFIER1: F AND ROUTE TYPE QUALIFIER2: S. - NO LONGER REQUIRED.
20. ADDED TO PROFILE LINE 5 DIST TO THLD FROM 291 HAT: 0.74. - ADDED IAW 8260.19J.

COORDINATED WITH:

A4A

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ALPA

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AOPA

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APA

☒

HAI

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NBAA

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OTHER: ZSE, PDX ATCT, AMGR, ST AERO

FLIGHT CHECKED BY

WENDI S GIMA

Digitally signed by

JOSEPH L ZEDER

Sep 04, 2024

OFFICE

FPO

DATE

08/30/2024

DEVELOPED BY

TYLER MITCHELL

Digitally signed by

JOSEPH L ZEDER

Sep 04, 2024

OFFICE

AJV-A432

DATE

05/31/2024

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by

JOSEPH L ZEDER

Sep 04, 2024

OFFICE

AJV-A432

DATE

10/31/2024

TITLE

MANAGER

