

**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> KRNO	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 17L	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> RENO	<u>STATE</u> NV	
<u>AIRPORT ELEVATION</u> 4415	<u>TDZE</u> 4415	<u>SUPERSEDED</u> RNAV (RNP) Z RWY 16L	<u>ORIGINAL/AMENDMENT</u> 1B	<u>DATED</u> 02/01/2018	<u>MAG VAR</u> 13E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 3 NOVEMBER 2022	<u>REQUIRED EFFECTIVE DATE</u> 11/03/2022	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2020

**TERMINAL ROUTES**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
HOBOA		SNDIT		TF	FB	1.00	036.81	9.89	11100
SNDIT		JUDPU		TF	FB	1.00	036.91	8.14	10500
TRUCK		JUDPU		TF	FB	1.00	023.57	11.98	10500
AVVYY	IAF	FREEL		TF	FB	0.50	347.09	6.50	11200
FREEL		ROWWS		TF	FB	0.50	347.09	4.37	11000
JUDPU	IAF	GNAAR		TF	FB	1.00	037.01	3.95	10000
WINRZ	IAF	DIDBE		TF	FB	0.70	203.50	12.34	7900
LIBGE	IAF	OBIVE		TF	FB	1.00	167.09	7.01	9300
OBIVE		DIDBE		TF	FB	1.00	167.12	7.09	7900
ROWWS	IF	TLLAK		TF	FB	0.50	347.09	4.35	9100
TLLAK		OQIKO		RF	FB	0.80	(3.00 NM RADIUS CW (CFPPM))	2.62	9100
OQIKO		YETUD		RF	FB	0.80	(3.20 NM RADIUS CW (CFRVW))	4.36	7800
YETUD		HOGBO	PFAF	RF	FB	0.50	(3.20 NM RADIUS CW (CFRVW))	2.90	6900
GNAAR	IF	OQIKO		TF	FB	0.80	037.04	3.80	9100
DIDBE	IF	HOGBO	PFAF	TF	FB	0.80	165.37	3.72	6900
HOGBO	PFAF	RW17L	MAP	TF	FO	0.30	167.11	7.57	
RW17L	MAP	ZIDGO		TF	FB	1.00	167.11	8.77	
ZIDGO		USINE		TF	FB	1.00	183.55	6.72	

QUALITY  
10  
CHECKED



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

**ALTERNATE:** NA  STANDARD

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>												
AUTHORIZATION REQUIRED															
RNP 0.12 DA*	4754	1	339	4754	1	339	4754	1	339	4754	1	339			
RNP 0.17 DA**	5017	1 3/4	602	5017	1 3/4	602	5017	1 3/4	602	5017	1 3/4	602			
RNP 0.30 DA	5067	1 7/8	652	5067	1 7/8	652	5067	1 7/8	652	5067	1 7/8	652			



**CHANGES - REASONS**

- THIS AMENDMENT INCORPORATES P-NOTAM AMDT 1A AND 1B IAW 8260.19I.

1. AIRPORT MAGVAR UPDATED FROM EPOCH YEAR 1985/16E TO 2020/13E. - ATC REQUEST.
2. PROCEDURE NAME CHANGED FROM RNAV (RNP) Z RWY 16L TO RNAV (RNP) Z RWY 17L. - AIRPORT MAGVAR UPDATED AND RUNWAY RENUMBERED.
3. TERMINAL ROUTE FROM HOBOA CHANGED TO POINT FROM JUDPU TO SNDIT AND COURSE AND DISTANCE CHANGED FROM 033.81/19.78 TO 036.81/9.89, ALTITUDE CHANGED FROM 10500 TO 11100 AND CHANGED FROM INITIAL TO FEEDER. - ATC REQUEST, PROCEDURE REDESIGN TO ACCOMODATE TRANSITION FROM ENROUTE ENVIRONMENT.
4. ADDED TERMINAL ROUTE FROM SNDIT TO JUDPU. - ATC REQUEST.
5. TERMINAL ROUTE TRUCK TO JUDPU CHANGED TO A FEEDER AND COURSE/DISTANCE CHANGED FROM 022.26/13.69 TO 023.57/11.98 - FEEDER REALIGNED PER ATC REQUEST.
6. TERMINAL ROUTE ADDED INITIAL FROM AVVYY TO FREEL. - ATC REQUEST.
7. TERMINAL ROUTE ADDED FROM FREEL TO ROWWS. - ATC REQUEST.
8. TERMINAL ROUTE CHANGED FROM JUDPU TO OQIKO TO JUDPU TO GNAAR. - NEW INTERMEDIATE FIX GNAAR, ATC REQUEST.
9. TERMINAL ROUTE WINRZ TO DIDBE RNP CHANGED FROM 1.00 TO 0.70 AND COURSE CHANGES FROM 200.50 TO 203.50. - ATC REQUEST AND UPDATED AIRPORT MAGVAR.
10. TERMINAL ROUTE LIBGE TO OBIVE COURSE CHANGED FROM 164.09 TO 167.09. - AIRPORT MAGVAR UPDATED.
11. TERMINAL ROUTE OBIVE TO DIDBE COURSE CHANGED FROM 164.12 TO 167.12. - AIRPORT MAGVAR UPDATED.
12. TERMINAL ROUTE ADDED NEW INTERMEDIATE SEGMENT FROM ROWWS TO TLLAK. - ATC REQUEST.
13. TERMINAL ROUTE ADDED NEW SEGMENT FROM TLLAK TO OQIKO. - ATC REQUEST.
14. TERMINAL ROUTE ADDED NEW INTERMEDIATE SEGMENT FROM GNAAR TO OQIKO. - ATC REQUEST.
15. TERMINAL ROUTE FROM DIDBE TO HOGBO CHANGED COURSE FROM 162.37 TO 165.37. - AIRPORT MAGVAR UPDATED.
16. TERMINAL ROUTE HOGBO TO RW17L CHANGED COURSE FROM 164.11 TO 167.11 AND UPDATED THE RUNWAY FROM 16L TO 17L. - AIRPORT MAGVAR UPDATED, AND RUNWAY RENUMBERED.
17. TERMINAL ROUTE FROM RW17L TO ZIDGO CHANGED COURSE FROM 164.11 TO 167.11 AND UPDATED THE RUNWAY FROM 16L TO 17L. - AIRPORT MAGVAR UPDATED, AND RUNWAY RENUMBERED.
18. TERMINAL ROUTE FROM ZIDGO TO USINE COURSE CHANGED FROM 180.55 TO 183.55. - AIRPORT MAGVAR UPDATED.
19. TERMINAL ROUTE FROM USINE TO YARKU COURSE CHANGED FROM 124.37 TO 127.37. - AIRPORT MAGVAR UPDATED.
20. MISSED APPROACH INSTRUCTIONS CHANGED ALL COURSES +3 DEGREES, ADDED \*\*MISSED APPROACH REQUIRES MINIMUM CLIMB OF 203 FEET PER NM TO 5040, AND CHANGED FROM \*MISSED APPROACH REQUIRES A MINIMUM CLIB OF 259 FEET PER NM TO 7000 TO \*MISSED APPROACH REQUIRES MINIMUM CLIMB OF 264 FEET PER NM TO 7260. - AIRPORT MAGVAR UPDATED, \* NOTE MOVED FROM NOTES SECTION TO MISSED APPROACH INSTRUCTIONS AND UPDATED DUE TO NEW MISSED OBSTACLE IAW 8260.19I AND \*\* NOTE ADDED WITH NEW MINIMUMS AT ATC REQUEST.
21. PROFILE LINE 3 FAC CHANGED FROM 164.11 TO 167.11. - AIRPORT MAGVAR UPDARED.
22. PROFILE LINE 5 MOVED DISTANCE TO THLD FROM 381 HATH: 0.96 NM FROM ADDITIONAL FLIGHT DATA AND UPDATED IT TO DIST TO THLD FROM 339 HAT: 0.83. - UPDATED NOTE AND PLACEMENT IAW 8260.19I.
23. PROFILE LINE 7 ADDED 20:1 IS CLEAR. - 20:1 VISUAL SURFACE IS CLEAR.
24. PROFILE LINE 8 CHANGED FROM MSA FROM: RW16L 12000 TO RW17L. - AIRPORT MAGVAR UPDATED, RUNWAY RENUMBERED.
25. ADDED PBN REQUIREMENTS NOTE: RNP AR APCH - GPS. - IAW 8260.19I.
26. ADDED CHART NOTE: WHEN RENO ALTIMETER SETTING NOT RECEIVED, PROCEDURE NA. - IAW 8260.19I.
27. CHANGED NOTE FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -16C (4F) OR ABOVE 54C (130F) TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -9°C OR ABOVE 54°C. - UPDATED TEMPERATURE DATA AND NOTE IAW 8260.19I.
28. ADDED CHART SPEED ICON IN PLANVIEW AT SNDIT, TRUCK, FREEL, JUDPU, WINRZ, OBIVE: MAX 210 KIAS. - ATC REQUEST.
29. REMOVED CHART NOTE: WHEN VGSI INOP, PROCEDURE NA AT NIGHT. - NO LONGER REQUIRED IAW 8260.19I.
30. REMOVED CHART NOTE: GPS REQUIRED. - NOW PART OF THE PBN REQUIREMENTS NOTE.
31. REMOVED CHART PLANVIEW NOTE AT OQIKO: MAX 180 KIAS. - SPEED RESTRICTION NO LONGER NEEDED.
32. REMOVED CHART PLANVIEW NOTE ADJACENT TO TRUCK IAF/HOBOA IAF: RF REQUIRED. - NOTE NO LONGER REQUIRED IAW 8260.19I.
33. REMOVED CHART PLANVIEW NOTE AT TRUCK/HOBOA/LIBGE/WINRZ: (RNP VALUES). - NOW CAPTURED IN THE TERMINAL ROUTES OF THE -3.
34. REMOVED ADDITIONAL FLIGHT DATA CHART FAS OBST: 4780 BLDG 393200N/1194538W CHART FAS OBST: 4501 TOWER 393127N/1194557W CHART 4458 TREE 393102N/1194605W. CHART 4490 TREE 393112N/1194554W. CHART 4497 POLE 393118N/1194553W. CHART 4454 ROD ON POLE 393101N/1194558W. CHART 4458 POLE 393101N/1194557W. - NO FAS OBSTACLES, AND OBSTACLES NOT REQUIRED TO BE CHARTED.
35. REMOVED ROUTE TYPE QUALIFER 1: P AND 2: S AND ROUTE TYPE: A, R FROM ADDITIONAL FLIGHT DATA. - NO LONGER REQUIRED.
36. RNP 0.12 DA\* MINS CHANGED DA/HAT AND VIS FROM 4796/381 AND 1 1/8 SM TO 4754/339 AND 1 SM. - NEW MISSED APPROACH PENETRATING OBSTACLE.
37. ADDED RNP 0.17 DA\*\* - ATC REQUEST.
38. RNP 0.30 DA MINS CHANGED DA/HAT AND VIS FROM 5133/718 AND 2 1/2 SM TO 5067/652 AND 1 7/8 SM. - FINAL CONTROLLING OBSTACLE AC CHANGED FROM 4D TO 1B.
39. ADDED CAT D MINIMUMS - FPT REQUEST.
40. ADDITIONAL FLIGHT DATA CHANGED FROM HOLD S, RT, 346.76 INBOUND TO 349.76 INBOUND. - AIRPORT MAGVAR UPDATED.

QUALITY  
10  
CHECKED

**COORDINATED WITH:**

**A4A**    **ALPA**    **AOPA**    **APA**    **HAI**    **NBAA**    **OTHER:** ZOA, RNO APP CON, RNO ATCT, AMGR

**FLIGHT CHECKED BY**      **ERIC N SUSKI**  
PENDING                      Aug 19, 2022

**OFFICE**                      **DATE**

**DEVELOPED BY**              **TYLER D MITCHELL**  
TYLER MITCHELL              Aug 05, 2022

**OFFICE**                      **DATE**  
AJV-A432                      06/29/2022

**APPROVED BY**              **ERIC N SUSKI**  
JOHNNIE BAKER              Aug 19, 2022

**OFFICE**                      **DATE**                      **TITLE**  
AJV-A430                                                                MANAGER

