

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
LOC STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.25**

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.

AIRPORT ID KRNO	PROCEDURE NAME LOC Y RWY 17R	ORIGINAL/AMENDMENT 1	CITY RENO	STATE NV		
AIRPORT ELEVATION 4415	TDZE 16R 4415 16L 4415	SUPERSEDED LOC Y RWY 16R	ORIGINAL/AMENDMENT ORIG-A	DATED 02/01/2018	MAG VAR 13E	EPOCH YEAR 2020
FACILITY I-RNO	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE 3 NOVEMBER 2022	REQUIRED EFFECTIVE DATE 11/03/2022	CANCEL/SUSPEND		

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
LIBGE INT/I-RNO 27.41 DME	IAF	ROARS/I-RNO 20.86 DME					167.12	6.55 (I-RNO)	9200
ROARS/I-RNO 20.86 DME		WALAR/I-RNO 16.86 DME					167.12	4.00 (I-RNO)	8600
WALAR/I-RNO 16.86 DME	IF	ZOMPO/I-RNO 12.75 DME					167.12	4.11 (I-RNO)	7600
ZOMPO/I-RNO 12.75 DME		DISCS/I-RNO 10.75 DME					167.12	2.00 (I-RNO)	7400

MISSED APPROACH

MAP:

LOC: WUMKA/I-RNO 2.46 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 6300 ON HEADING 167.12 THEN CLIMBING LEFT TURN TO 11000 DIRECT FMG VORTAC AND ON FMG VORTAC R-017 TO NICER INT AND HOLD, CONTINUE CLIMB-IN-HOLD TO 11000.

*MISSED APPROACH REQUIRES MINIMUM CLIMB OF 320 FEET PER NM TO 8000.

**MISSED APPROACH REQUIRES MINIMUM CLIMB OF 260 FEET PER NM TO 8000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT WALAR
3. FAF: 167.12 FAF: DISCS/I-RNO 10.75 DME DIST FAF TO MAP: 8.29 DIST FAF TO THLD: 8.89
4. MIN ALT: WALAR/I-RNO 16.86 DME 8600, ZOMPO/I-RNO 12.75 DME 7600, DISCS/I-RNO 10.75 DME 7400, HONEL/I-RNO 8.16 DME 6540
8. MSA FROM: FMG VORTAC 130-250 12000, 250-350 10000, 350-130 9600

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

CHART NOTE: CIRCLING RWY 8 NA AT NIGHT.



CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
 CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 17R* CAT E VISIBILITY TO 3 SM.
 CHART NOTE: CIRCLING NA FOR CAT E SW OF RWYS 8 AND 35L.
 CHART NOTE: # INOPERATIVE TABLE DOES NOT APPLY TO CATS C, D AND E.
 CHART SPEED ICON IN PLANVIEW AT LIBGE: MAX 230 KIAS.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
 CHART AT OR ABOVE 12000 AT LIBGE.
 DISCS TO RW17R: 3.10/59.
 HOLD N, RT, 196.91 INBOUND.
 CHART FAS OBST: 5101 VEGETATION (32-064569) 393449N/1194532W.
 CHART VDP AT 4.69 DME
 FAS OBST: 5450 AAO 393711N/1194729W.

MINIMUMS:

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

ALTERNATE: NA LOC: CAT A, B 1600-2, CAT C, D 2100-3, CAT E 2300-3

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>		
	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
S-LOC 17R*	5420	4000	1005	5420	5500	1005	5420	2 1/2	1005	5420	2 1/2	1005	5420	2 1/2	1005
SIDESTEP 17L*#	5420	1 1/4	1005	5420	1 1/2	1005	5420	3	1005	5420	3	1005	5420	3	1005
S-LOC 17R**#	5720	4000	1305	5720	5500	1305	5720	3	1305	5720	3	1305	5720	3	1305
S-LOC 17R#	5920	4000	1505	5920	5500	1505	5920	3	1505	5920	3	1505	6180	3	1765
CIRCLING	5920	1 1/4	1505	5920	1 1/2	1505	6480	3	2065	6480	3	2065	6700	3	2285



CHANGES - REASONS

1. REMOVED "*" FROM PROFILE LINE 4 - IAW 8260.19I 1-1-5(F).
2. RAISED MINIMUM ALTITUDE FROM ROARS TO WALAR FROM 8400 TO 8600 - ADDED PRECIPITOUS TERRAIN ADJUSTMENT.
3. RAISED MINIMUM ALTITUDE FROM WALAR TO ZOMPO FROM 7500 TO 7600 - ADDED PRECIPITOUS TERRAIN ADJUSTMENT.
4. CHANGED PROCEDURE NAME FROM LOC Y RWY 16R TO LOC Y RWY 17R - MAGNETIC VARIATION CHANGED FROM 16 E TO 13 E.
5. MOVED "DME REQUIRED" NOTE FROM CHART PLANVIEW TO PBN/EQUIPMENT REQUIREMENT NOTES - IAW 8260.19I 8-6-8(A).
6. INITIAL COURSE CHANGED FROM 164.12 TO 167.12 - MAGNETIC VARIATION CHANGED FROM 16 E TO 13 E.
7. INTERMEDIATE COURSE CHANGED FROM 164.12 TO 167.12 - MAGNETIC VARIATION CHANGED FROM 16 E TO 13 E.
8. FINAL APPROACH COURSE CHANGED FROM 164.12 TO 167.12 - MAGNETIC VARIATION CHANGED FROM 16 E TO 13 E.
9. ADDED ADDITIONAL FLIGHT DATA NOTE "CHART AT OR ABOVE 12000 AT LIBGE" - NEW ALTITUDE RESTRICTION FORMATTED IAW 8260.19I 8-6-10(N).
10. ADDED NOTE "CHART SPEED ICON IN PLANVIEW AT LIBGE: MAX 230 KIAS" - NEW SPEED RESTRICTION FORMATTED IAW 8260.19I 8-6-9.
11. REPLACED NOTE "CIRCLING RWY 7 NA AT NIGHT" WITH "CIRCLING RWY 8 NA AT NIGHT" - RWY 7 BECAME RWY 8 DUE TO MAGNETIC VARIATION CHANGE.
12. REPLACED NOTE "CHART NOTE: CIRCLING NA FOR CAT E SW OF RWYS 7 AND 34L" WITH "CHART NOTE: CIRCLING NA FOR CAT E SW OF RWYS 8 AND 35L" - RWY 7 AND 34L BECAME RWY 8 AND 35L DUE TO MAGNETIC VARIATION CHANGE.
13. VDP DISTANCE CHANGED FROM 4.7 DME TO 4.69 DME - BASED ON CURRENT EVALUATION.
14. CHANGED SYMBOL FOR MISSED APPROACH REQUIRES A MINIMUM CLIMB OF 260 FEET PER NM TO 8000 FROM "CROSS" TO "*" - CHANGED FOR CONSISTENCY AMONG ALL ILS AND LOC IAPS FOR KRNO RWY 17R.
15. CHANGED "CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC 16R+ CAT E VISIBILITY TO 3 MILES." TO "CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 17R* VISIBILITY CAT E VISIBILITY TO 3 MILES" - IAW 8260.3E TABLE 3-3-1.
16. ADDED ADDITIONAL FLIGHT DATA NOTE "FAS OBST: 5450 AAO 393711N/1194729W" - 7:1 EXCLUDED OBSTACLE DOCUMENTED IAW 8260.19I 8-6-10(E).
17. MISSED APPROACH COURSE CHANGED FROM 164.12 TO 167.12 - MAGNETIC VARIATION CHANGED FROM 16 E TO 13 E.

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA OTHER: ZOA, RNO ATCT, AMGR, WESTERN FPT.

FLIGHT CHECKED BY

GARY J VEER

OFFICE

FPO

DATE

09/01/2022

Digitally signed by
CASIMIR L TABAKA

Aug 23, 2022

DEVELOPED BY

KARLIE BUNTIN

Digitally signed by
KARLIE B BUNTIN

Aug 03, 2022

OFFICE

AJV-A432

DATE

07/08/2022

APPROVED BY

JOHNNIE BAKER

OFFICE

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TITLE
MANAGER

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Aug 23, 2022

