

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29

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> KFRM	<u>PROCEDURE NAME</u> ILS OR LOC RWY 31	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> FAIRMONT	<u>STATE</u> MN		
<u>AIRPORT ELEVATION</u> 1162	<u>TDZE</u> 1162	<u>SUPERSEDED</u> ILS OR LOC RWY 31	<u>ORIGINAL/AMENDMENT</u> 1A	<u>DATED</u> 10/07/2021	<u>MAG VAR</u> 4E	<u>EPOCH YEAR</u> 1995
<u>FACILITY</u> I-FQJ	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 11 AUGUST 2022	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 220/30 CW 040/30	NOPT	NUHZU	IF/IAF	3100
2. 040/30 CW 130/30		HOPUD	IAF	3200
3. 130/30 CW 220/30		ZILUD	IAF	3200

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
HOPUD	IAF	NUHZU/FNX 12.66 DME	NOPT	TF	FB	1.00	040.17	8.00	3100
ZILUD	IAF	NUHZU/FNX 12.66 DME	NOPT	TF	FB	1.00	220.35	8.00	3100
NUHZU/FNX 12.66 DME	IF/IAF	MONTZ LOM/FNX 5.66 DME					310.11	7.00 (I-FQJ)	3100

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.61 NM AFTER MONTZ LOM/FNX 5.66 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1800 THEN CLIMBING RIGHT TURN TO 3100 DIRECT NUHZU AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD SE NUHZU, LT, 310.11 INBOUND, 3100 FT. IN LIEU OF PT (IF/IAF), MAX 6000.

3. FAC: 310.11FAF: MONTZ LOM/FNX 5.66 DMEDIST FAF TO MAP: 5.61DIST FAF TO THLD: 5.61

4. MIN ALT: NUHZU/FNX 12.66 DME 3100, MONTZ LOM/FNX 5.66 DME 3100

5. DIST TO THLD FROM OM: 5.61MM: 0.48IM:150 HAT:GS ANT: 842

6. MIN GS INCPT: 3100GS ALT AT PFAF :OM: 3005MM: 1371IM:

7. GP ANGLE: 3.0034:1:20:1:TCH: 58.8

8. MSA FROM:

EQUIPMENT REQUIREMENTS NOTES:

RNP APCH - GPS.
ADF OR DME REQUIRED, LOC ONLY.

NOTES:

CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 31 ALL CATS VISIBILITY TO 7/8 SM AND S-LOC 31 CATS C/D VISIBILITY TO 1 3/8 SM.
CHART NOTE: DME FROM FNX DME. DME USE REQUIRES SIMULTANEOUS RECEPTION OF I-FQJ AND FNX DME.
CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 1480 MSL.

ADDITIONAL FLIGHT DATA:

FAS OBST: 1380 AAO 433439N/0941953W.
CHART VDP AT 1.43 DME
DISTANCE VDP TO THLD 1.37 NM.
CHART CIRCLING ICON.

MINIMUMS:

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

ALTERNATE: NA

X

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
S-ILS 31	1480	1/2	318	1480	1/2	318	1480	1/2	318	1480	1/2	318			
S-LOC 31	1640	1/2	478	1640	1/2	478	1640	1	478	1640	1	478			
CIRCLING	1660	1	498	1660	1	498	1980	2 1/2	818	1980	2 3/4	818			



CHANGES - REASONS

1. CHANGED NUHZU FROM NUHZU/FRM 13.29 TO NUHZU/FNX 12.66 - PER FPT CHECKLIST, DME FACILITY CHANGED FROM FRM TO FNX
2. CHANGED FAF FROM MONTZ LOM/FRM 6.29 DME TO MONTZ LOM/FNX 5.66 DME - PER FPT CHECKLIST, DELETED FRM DME AND ADDED FNX DME TO PROCEDURE.
3. CHANGED MAP FROM 5.61 AFTER MONTZ/FRM 6.29 DME OR AT FRM 0.69 DME TO 5.61 AFTER MONTZ/FNX 5.66 DME - MAP NOT DEFINED WITH DME DUE TO ANGULAR DIFFERENCE GREATER THAN 23°, DME FAC CHANGED FROM FRM TO FNX.
4. CHANGED ADDITIONAL FLIGHT DATA NOTE "DME FROM FRM" TO "DME FROM FNX DME. DME USE REQUIRES SIMULTANEOUS RECEPTION OF I-FQJ AND FNX DME" - IAW 8260.319I 8-6-9.K.
5. CHANGED COURSE FROM HOPUD TO NUHZU/FRM 13.29 DME FROM 040.10 TO 040.17 - HOPD MOVED 70.92 FEET NORTHEAST TO FACILITATE MAXIMUM 90° TURN.
6. CHANGED COURSE FROM ZILUD TO NUZHI/FRM 13.29 DME FROMM 220.11 TO 220.35 - ZILUD MOVED 87.84 FEET WEST TO FACILITATE MAXIMUM 90° TURN.
7. RAISED S-LOC 31 MDA FROM 1620 TO 1640 - NEW CONTROLLING OBSTACLE.
8. CHANGED CHART VDP AT 2.06 DME TO CHART VDP AT 1.43 DME - FNX REPLACED FRM AS DME SOURCE.
9. CHANGED DISTANCE TO THLD FROM MM FROM 0.47 TO 0.48 (2898 FT = 0.48 NM).
10. CHANGED LINE 6 DATA: OM FROM 3013 TO 3005, MM 1351 TO 1371 - DOCUMENTED TARGETS VALUES.
11. LINE 5 GS ANT CHANGED FROM 841 TO 842 - NEW AIRNAV DATA.
12. CHANGED FAS OBSTACLE FROM FAS OBST: 1370 AAO 433506N/0942106W TO FAS OBST: 1380 AAO 433439N/0941953W - NEW EVALUATION.

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZMP, AMGR

FLIGHT CHECKED BY

SHAWN D MAXWELL

*Digitally signed by***ALLAN WILL**

Jun 08, 2022

OFFICE

FPO

DATE

06/07/2022

DEVELOPED BY

WILLIAM D. MELTON

*Digitally signed by***WILLIAM D MELTON**

Mar 29, 2022

OFFICE

AJV-A411

DATE

01/26/2022

APPROVED BY

JULIE MORGAN

*Digitally signed by***ALLAN WILL**

Jun 08, 2022

OFFICE

AJV-A410

DATE**TITLE**
MANAGER