

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) 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> MNM	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 3	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>CITY</u> MENOMINEE	<u>STATE</u> MI
<u>AIRPORT ELEVATION</u> 625	<u>TDZE</u> 624	<u>SUPERSEDED</u> RNAV (GPS) RWY 3	<u>DATED</u> 07/19/2018	<u>MAG VAR</u> 3W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 17 APRIL 2025	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 1990
			<u>CANCEL/SUSPEND</u>	

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 304/30 CW 124/30	NOPT	304/8 CW 124/8		2900
2. 304/8 CW 124/8		OMUPE	IF/IAF	2200
3. 124/30 CW 214/30		SEGOC	IAF	2900
4. 214/30 CW 304/30		KAPCE	IAF	2400

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
SEGOC	IAF	OMUPE	NOPT	TF	FB	1.00	123.73	5.00	2200
KAPCE	IAF	OMUPE	NOPT	TF	FB	1.00	303.87	5.00	2200
OMUPE	IF/IAF	FABOM		TF	FB	1.00	033.80	5.96	2200
FABOM	FAF	TACUC/2.20 NM TO RW03		TF	FB	0.30	033.85	2.62	
TACUC/2.20 NM TO RW03		RW03	MAP	TF	FO	0.30	033.85	2.20	
RW03	MAP	900 MSL		CA			033.85		
900 MSL		UCINI		DF	FO	1.00			2300

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW03

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2300 DIRECT UCINI AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
35
CHECKED

PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	HOLD SW OMUPE, RT, 033.80 INBOUND, 2200 FT. IN LIEU OF PT (IAF), MAX 6000.														
3.	FAC:	033.85	FAF:	FABOM	DIST FAF TO MAP:	4.82	DIST FAF TO THLD:	4.82							
4.	MIN ALT:	OMUPE 2200, FABOM 2200, TACUC/2.20 NM TO RW03 1360													
5.	DIST TO THLD FROM OM:		MM:		IM:		150 HAT:		276 HAT:	0.74	GS ANT:				
6.	MIN GP INCPT:	2200	GP ALT AT PFAF:	FABOM 2200					OM:		MM:			IM:	
7.	GP ANGLE:	3.00	34:1:	IS NOT CLEAR	20:1:	IS CLEAR	TCH:	49.5							
8.	MSA FROM:														

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING SUE ALTIMETER SETTING.
CHART NOTE: CIRCLING RWY 14, 32 NA AT NIGHT.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.
CHART NOTE: RWY 3 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV AND LNAV ALL CATS..
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SUE ALTIMETER SETTING: INCREASE LPV DA TO 959 FEET; INCREASE LNAV/VNAV DA TO 1209 FEET AND ALL VISIBILITIES 1/4 SM; INCREASE ALL MDAS 60 FEET AND CIRCLING VISIBILITY CATS C AND D 1/4 SM.
CHART NOTE: FOR INOPERATIVE ALS WHEN USING SUE ALTIMETER SETTING INCREASE LNAV MDA VISIBILITY CAT C AND D TO 1 1/4 SM.
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS AND LNAV CATS A AND B WHEN USING SUE ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

CHART LARSON (PVT) AIRPORT SUBDUED.
HOLD NE, RT, 213.98 INBOUND.
CHART FAS OBST: 733 TREE (26-133478) 450701N/0873942W.
CHART 786 WATER TOWER (26-133657) 450508N/0873952W.
CHART VDP AT 1.05 NM TO RW03.
WAAS CHANNEL # 73014
REFERENCE PATH ID: W03A
CHART CIRCLING ICON.
LTP HAE: 150.4 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/2, NA WHEN LOCAL WEATHER NOT AVAILABLE.

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
LPV DA	900	1	276	900	1	276	900	1	276	900	1	276			
LNAV/VNAV DA	1150	1	526	1150	1	526	1150	1	526	1150	1	526			
LNAV MDA	1000	1	376	1000	1	376	1000	1	376	1000	1	376			
CIRCLING	1200	1	575	1200	1	575	1200	1 1/2	575	1380	2 1/2	755			



CHANGES - REASONS

1. TERMINAL ROUTES: CHANGED FINAL APPROACH FIX FROM: "LEYID" TO: FABOM" – CHANGED TO MATCH ILS PFAF, FIX MOVED 375 FT SOUTHWEST.
2. DISTANCE FROM OMUPE TO PFAF CHANGED FROM: "6.02" TO: "5.96" – PFAF MOVED TO MATCH ILS.
3. DISTANCE FROM PFAF TO TACUC CHANGED FROM: "2.56" TO: "2.62" – PFAF MOVED TO MATCH ILS.
4. PROFILE LINE 3: FAF: CHANGED FROM: "LEYID" TO: "FABOM" – CHANGED TO MATCH ILS.
5. DIST FAF TO MAP AND DIST FAF TO THLD: CHANGED FROM: "4.76" TO: "4.82" – PFAF MOVED TO MATCH ILS.
6. PROFILE LINE 5: CHANGED HAT MARKER FROM: "200 HAT: 0.50" TO "276 HAT: 0.74" – LPV MINS INCREASED – 34:1 OBSTACLES - 8260.19J 8-6-7E(3).
7. PROFILE LINE 6: GP ALT AT PFAF: CHANGED FROM: "LEYID 2200" TO: "FABOM 2200" – PFAF CHANGED TO MATCH ILS.
8. PROFILE LINE 7: 34:1 CHANGED FROM: "IS CLEAR" TO: "IS NOT CLEAR" – NEW OBSTACLE EVALUATION REVEALING PENETRATIONS.
9. PBN REQUIREMENTS NOTE: CHANGED FROM: "RNP APCH" TO: "RNP APCH – GPS" – 8260.19J 8-6-8D(5)(A)1.
10. NOTES: UPDATED BARO.VNAV NOTE FROM: "CHART NOTE: BARO-VNAV AND VDP NA WHEN USING STURGEON BAY ALTIMETER SETTING." TO: "CHART NOTE: BARO-VNAV AND VDP NA WHEN USING SUE ALTIMETER SETTING." – 8260.19J8-6-10E(8) AND (9).
11. ADDED HELICOPTER VIS NOTE: "CHART NOTE: RWY 3 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED." – DUE TO 34:1 OBSTACLES IN LPV/LNAV/VNAV FINAL.
12. UPDATED ALTIMETER SETTING NOTE FROM: "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE STURGEON BAY ALTIMETER SETTING AND INCREASE ALL DA/MDA 60 FEET, INCREASE CIRCLING CAT C/D VISIBILITY 1/4 SM." TO: "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SUE ALTIMETER SETTING: INCREASE LPV DA TO 959 FEET; INCREASE LNAV/VNAV DA TO 1209 FEET AND ALL VISIBILITIES 1/4 SM; INCREASE ALL MDAS 60 FEET AND CIRCLING VISIBILITY CATS C AND D 1/4 SM." – 8260.19J 8-6-10F(4).
13. UPDATED ALS INOP NOTE FROM: "CHART NOTE: FOR INOPERATIVE MALSR WHEN USING STURGEON BAY ALTIMETER SETTING INCREASE LNAV MDA VISIBILITY CAT C/D TO 1 3/8." TO: "CHART NOTE: FOR INOPERATIVE ALS WHEN USING SUE ALTIMETER SETTING INCREASE LNAV MDA VISIBILITY CAT C AND D TO 1 1/4 SM." – 8260.19J 8-6-12O(3)(D) 8260.3F TBL 3-3-1.
14. UPDATED INOPERATIVE NOTE FROM: "CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV AND LNAV/VNAV ALL CATS AND LNAV MDA CATS A/B." TO: "CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS AND LNAV CATS A AND B WHEN USING SUE ALTIMETER SETTING." - 8260.19J 8-6-12 O(3)(C).
15. ADDED "CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV AND LNAV ALL CATS." - 8260.19 8-6-12 O(3)(C).
16. ADDITIONAL FLIGHT DATA:UPDATED CONTROLLING OBSTACLES FROM: "CHART 778 TANK 450508N/0873952W." TO: "CHART 786 WATER_TOWER (26-133657) 450508N/0873952W." - NEW SURVEY AND OBSTACLE EVALUATIONS.
17. REMOVED: "**LNAV ONLY" - NO LONGER IN CRITERIA.
- 18.LNAV FAS OBSTACLE CHANGED FROM: "FAS OBST: 734 TREE 450714N/0873927W." TO: "CHART FAS OBST: 733 TREE (26-133478) 450701N/0873942W." - OBSTACLE RESURVEYED.
19. MINIMUMS: LPV DA/HAT CHANGED FROM: "824/200" TO: "900/276" - DUE TO MISSED APPROACH PENETRATION.
20. FAS DATA: CRC REMAINDER CHANGED FROM: "A7E9D8C6" TO: "BF3FB446" - LTP/FTP LAT/LONG CHANGED FROM: "450723.5920N/0873839.9015W" TO: "450723.5915N/0873839.8995W", AND FPAP COORDINATES CHANGED FROM: "450840.0400N/0873735.2700W" TO: "450840.0400N/0873735.2765W".
21. TCH CHANGED FROM: "49.4" TO: "49.5" - ADJUSTED DUE TO MOVING PFAF.
22. FAS DATA: VAL ADJUSTED FROM: "35" TO: "50" - LPV HAT IS GREATER THAN 200 FT.

COORDINATED WITH:

A4A

ALPA

☒

AOPA

☒

APA

HAI

NBAA

☒

OTHER: ZMP, GREEN BAY APP CON, AMGR

FLIGHT CHECKED BY

Digitally signed by

ERIC N SUSKI

Mar 03, 2025

OFFICE

AJF

DATE

02/27/2025

DEVELOPED BY

Digitally signed by

ERIC N SUSKI

Mar 03, 2025

OFFICE

AJV-A33

DATE

10/21/2024

APPROVED BY

Digitally signed by

ERIC N SUSKI

Mar 03, 2025

OFFICE

AJV-A33

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMNM
RUNWAY	RW03
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W03A
LTP/FTP LATITUDE	450723.5915N
LTP/FTP LONGITUDE	0873839.8995W
LTP/FTP ELLIPSOIDAL HEIGHT	+01504
FPAP LATITUDE	450840.0400N
FPAP LONGITUDE	0873735.2765W
THRESHOLD CROSSING HEIGHT (TCH)	00049.5
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0920
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	BF3FB446

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01873
FPAP ORTHOMETRIC HEIGHT	+01873

