

**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.

AIRPORT ID MNM	PROCEDURE NAME RNAV (GPS) RWY 3	ORIGINAL/AMENDMENT ORIG-B	CITY MENOMINEE	STATE MI
AIRPORT ELEVATION 625	TDZE 624	SUPERSEDED RNAV (GPS) RWY 3	DATED 07/19/2018	MAG VAR 3W
FACILITY RNAV	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE ROUTINE	EPOCH YEAR 1990
			CANCEL/SUSPEND	

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
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

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
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:



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 FPAF 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

MARC WEBBER

Digitally signed by

ERIC N SUSKI

Mar 03, 2025

OFFICE

AJF

DATE

02/27/2025

DEVELOPED BY

JOHN BORDY (JACOB CLARK)

Digitally signed by

ERIC N SUSKI

Mar 03, 2025

OFFICE

AJV-A33

DATE

10/21/2024

APPROVED BY

JOHN BORDY

Digitally signed by

ERIC N SUSKI

Mar 03, 2025

OFFICE

AJV-A33

DATE

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
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



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD**

<u>AIRPORT ID</u> MNM	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 3	<u>AMDT NO.</u> ORIG-B	<u>CITY</u> MENOMINEE	<u>STATE</u> MI	<u>AIRPORT ELEVATION</u> 625	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM 304/30 CW 124/30 **TO** 304/8 CW 124/8

RNP DISTANCE PAT MAP HAT HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (55-000248)	445950.00N/0882349.00W	1883	500	50	5D	1000					2900
TERRAIN	451127.00N/0882218.00W	1056 (1100)								AS1500	2600

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

STRAIGHT-IN AREA

FROM 304/8 CW 124/8 **TO** OMUPE

RNP DISTANCE PAT MAP HAT HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (55-000375)	450513.00N/0875445.00W	1060	100	20	3C	1000					2100
TERRAIN	450133.00N/0875521.00W	728 (700)								AS1500	2200

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID
MNM

PROCEDURE NAME
RNAV (GPS) RWY 3

AMDT NO.
ORIG-B

CITY
MENOMINEE

STATE
MI

AIRPORT ELEVATION
625

FACILITY
RNAV

LEFT BASE AREA

FROM
124/30 CW 214/30

TO
SEGOC

RNP DISTANCE PAT MAP HAT HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	452348.00N/0882345.00W	1844	215	8	4B	1000					2900
TERRAIN	451824.00N/0881803.00W	1417 (1400)								AS1500	2900

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

RIGHT BASE AREA

FROM
214/30 CW 304/30

TO
KAPCE

RNP DISTANCE PAT MAP HAT HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (55-000571)	445421.00N/0872215.00W	1351	250	50	4D	1000					2400
TERRAIN	445421.00N/0872218.00W	853 (900)								AS1500	2400

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID
MNM

PROCEDURE NAME
RNAV (GPS) RWY 3

AMDT NO.
ORIG-B

CITY
MENOMINEE

STATE
MI

AIRPORT ELEVATION
625

FACILITY
RNAV

INITIAL

FROM
SEGOC

TO
OMUPE

RNP
1.00

DISTANCE
5.00

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (55-000981)	450134.35N/0875231.04W	965	100	20	3C	1000					2000
TERRAIN	445851.00N/0875339.00W	672 (700)								AS1500	2200

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM
KAPCE

TO
OMUPE

RNP
1.00

DISTANCE
5.00

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	445842.00N/0874903.00W	801	215	8	4B	1000				AT399	2200
TERRAIN	445757.00N/0874627.00W	590 (600)								AS1500	2100

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID
MNM

PROCEDURE NAME
RNAV (GPS) RWY 3

AMDT NO.
ORIG-B

CITY
MENOMINEE

STATE
MI

AIRPORT ELEVATION
625

FACILITY
RNAV

INTERMEDIATE

FROM
OMUPE (IF/IAF)

TO
FABOM

RNP
1.00

DISTANCE
5.96

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	450327.00N/0874300.00W	847	215	8	4B	500				AT853	2200
TERRAIN	450324.00N/0874306.00W	646 (600)								AS1500	2100

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LPV

FROM
FABOM

TO
RW03

RNP
0.30

DISTANCE
4.82

PAT

MAP
DA

HAT
276

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (26-035259)	450700.24N/0873903.42W	701	20	3	1A		34.00:1			MA26	900

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID
MNM

PROCEDURE NAME
RNAV (GPS) RWY 3

AMDT NO.
ORIG-B

CITY
MENOMINEE

STATE
MI

AIRPORT ELEVATION
625

FACILITY
RNAV

FINAL: LNAV/VNAV

FROM
FABOM

TO
RW03

RNP
0.30

DISTANCE
4.82

PAT

MAP
DA

HAT
526

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (26-133478)	450700.72N/0873942.05W	733	20	3	1A	161				XP256	1150

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

XP ADJUSTMENT USED TO RETAIN 1150 DA.

FINAL: LNAV

FROM
FABOM

TO
TACUC/2.20 NM TO RW03

RNP
0.30

DISTANCE
2.62

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	450327.00N/0874300.00W	847	215	8	4B	250				DG203 RA59	1360

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID
MNM

PROCEDURE NAME
RNAV (GPS) RWY 3

AMDT NO.
ORIG-B

CITY
MENOMINEE

STATE
MI

AIRPORT ELEVATION
625

FACILITY
RNAV

FINAL: LNAV STEPDOWN

FROM
TACUC/2.20 NM TO RW03

TO
RW03

RNP
0.30

DISTANCE
2.20

PAT

MAP
RW03

HAT
376

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (26-133478)	450700.72N/0873942.05W	733	20	3	1A	250					1000

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

HOLD-IN-LIEU OF PT

FROM
OMUPE

TO
P-5

RNP

DISTANCE

PAT
P-5

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	445851.00N/0875203.00W	867	215	8	4B	1000					1900
TERRAIN	445851.00N/0875203.00W	666 (700)								AS1500	2200

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID
MNM

PROCEDURE NAME
RNAV (GPS) RWY 3

AMDT NO.
ORIG-B

CITY
MENOMINEE

STATE
MI

AIRPORT ELEVATION
625

FACILITY
RNAV

MISSED APPROACH: LPV

FROM
DA **TO**
UCINI

RNP
0.30-1.00

DISTANCE

PAT

MAP

HAT

HMAS
697

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (26-134004)	450659.66N/0873903.77W	700	20	3	1A		ASC				2300
TOWER (26-000442)	451118.66N/0873406.96W	1096	20	3	1A	1000					2100
TERRAIN	451754.00N/0873251.00W	692 (700)								AS1500	2200

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV/VNAV

FROM
DA **TO**
UCINI

RNP
0.30-1.00

DISTANCE

PAT

MAP

HAT

HMAS
989

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2300
TOWER (26-000442)	451118.66N/0873406.96W	1096	20	3	1A	1000					2100
TERRAIN	451754.00N/0873251.00W	692 (700)								AS1500	2200

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID
MNM

PROCEDURE NAME
RNAV (GPS) RWY 3

AMDT NO.
ORIG-B

CITY
MENOMINEE

STATE
MI

AIRPORT ELEVATION
625

FACILITY
RNAV

MISSED APPROACH: LNAV

FROM
RW03 **TO**
UCINI

RNP
0.30-1.00

DISTANCE

PAT

MAP

HAT

HMAS
900

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2300
TOWER (26-000442)	451118.66N/0873406.96W	1096	20	3	1A	1000					2100
TERRAIN	451754.00N/0873251.00W	692 (700)								AS1500	2200

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

CIRCLING ALL CATS CAT A CAT B CAT C CAT D CAT E NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TOWER (55-000037)	450601.67N/0873730.29W	1.30	575	897	20	3	1A	300			1200
CATEGORY B											
TOWER (55-000037)	450601.67N/0873730.29W	1.83	575	897	20	3	1A	300			1200
CATEGORY C											
TOWER (55-000037)	450601.67N/0873730.29W	2.87	575	897	20	3	1A	300			1200
CATEGORY D											
TOWER (55-000470)	450347.94N/0873928.01W	3.75	755	1080	20	3	1A	300			1380

CIRCLING REMARKS:

MSA/ESA

CENTER **RADIUS**

REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



AIRPORT ID
MNM

PROCEDURE NAME
RNAV (GPS) RWY 3

AMDT NO.
ORIG-B

CITY
MENOMINEE

STATE
MI

AIRPORT ELEVATION
625

FACILITY
RNAV

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZMP ARTCC, GREEN BAY APP CON, GREEN BAY FSS

WX SERVICE
AWOS-3PT

LOCATION
MNM

HRS OPERATION
24

ALTIMETER SOURCE
MNM

DISTANCE
0

WMSCR
Y

ADJUSTMENTS
0

BACK-UP WX SERVICE
AWOS-3PT

LOCATION
SUE

HRS OPERATION
24

ALTIMETER SOURCE
SUE

DISTANCE
19.33

WMSCR
Y

ADJUSTMENTS
59

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
KMMN 625 MSL, KSUE 724 MSL
RASS = 58.46 FT.

PRIMARY NAVAID

MONITOR POINT

HRS OPERATION

CAT

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW14 - MIRL (PCL), PAPI-4R (PCL)	NPI-G	
RW32 - MIRL (PCL), PAPI-4L (PCL)	NPI-G	
RW03 - MALSR (PCL), HIRL (PCL)	PIR-G	
RW21 - HIRL (PCL), REIL (PCL), PAPI-4L (PCL)	PIR-G	

GLIDESLOPE ANGLE
3.00

ELEV RWY THRESHOLD
614.4

TCH
49.5

ELEV GS ANTENNA

DISTANCE FROM RWY

VGSI ANGLE

TCH

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD
ON CENTERLINE

FT FROM THRESHOLD
FT FROM CENTERLINE

DISPLACED THRESHOLD DISTANCE

CRITICAL TEMPERATURES

CRITICAL LOW
-16C

CRITICAL HIGH
+54C


ACT
-16C

APT ISA
+13.67C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 963 HIGH TEMP 1270.

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	CIRCLING RWY 14		
20:1			
688 TREE (26-029349) 450750.2600N/0873848.1900W (23.42)		692 TREE (26-133946) 450751.7000N/0873849.8800W (17.94)	
677 TREE (26-029552) 450749.0000N/0873848.6100W (16.32)		685 TREE (26-050752) 450750.9700N/0873849.8500W (13.83)	

<u>AIRPORT ID</u> MNM	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 3	<u>AMDT NO.</u> ORIG-B	<u>CITY</u> MENOMINEE	<u>STATE</u> MI	<u>AIRPORT ELEVATION</u> 625	<u>FACILITY</u> RNAV
685 TREE (26-050727)	450749.9500N/0873851.5700W (13.8)		682 TREE (26-096535)	450748.4700N/0873853.3600W (12.39)		
665 TREE (26-029340)	450748.2600N/0873846.7300W (11.53)		691 TREE (26-050733)	450751.2900N/0873852.9800W (11.36)		
668 TREE (26-029345)	450748.3600N/0873849.4200W (7.93)		682 TREE (26-050722)	450749.9200N/0873853.1000W (7.38)		
687 TREE (26-097853)	450749.1400N/0873858.3200W (3.33)		677 TREE (26-050734)	450750.7600N/0873851.4300W (2.99)		
677 TREE (26-050757)	450752.0900N/0873849.7900W (1.64)		674 TREE (26-050750)	450751.0500N/0873850.5100W (1)		
FINAL TYPE	CIRCLING RWY 32					
20:1						
654 TREE (26-050672)	450654.5000N/0873752.2000W (22.06)		660 TREE (26-050583)	450653.3500N/0873750.0800W (18.71)		
663 TREE (26-050868)	450654.2100N/0873745.6000W (14.68)		667 TREE (26-050921)	450651.9300N/0873747.0300W (13.16)		
659 TREE (26-029592)	450652.1400N/0873748.1400W (8.54)		656 TREE (26-050869)	450653.0200N/0873747.6900W (7.9)		
659 TREE (26-050945)	450652.5000N/0873747.1300W (7.6)		646 TREE (26-050585)	450654.0000N/0873749.9900W (7.02)		
655 TREE (26-133953)	450651.9000N/0873748.9400W (5.46)		643 TREE (26-050586)	450653.8300N/0873750.5600W (4.68)		
673 TREE (26-100617)	450651.8000N/0873740.6200W (3.84)		645 TREE (26-050808)	450653.7600N/0873748.9500W (2.68)		
633 POLE (26-029509)	450654.8400N/0873751.7100W (1.24)		653 TREE (26-050925)	450653.4000N/0873745.2400W (0.71)		
FINAL TYPE	LPV, LNAV/VNAV, LNAV					
34:1						
663 TREE (26-133889)	450708.1400N/0873846.8500W (7.46)		701 TREE (26-035259)	450700.2400N/0873903.4200W (7.32)		
700 TREE (26-134004)	450659.6600N/0873903.7700W (4.46)		676 TREE (26-032801)	450703.0500N/0873851.6900W (2.21)		
692 TREE (26-133412)	450659.8100N/0873900.1600W (0.75)		689 TREE (26-133810)	450658.4900N/0873854.8400W (0.14)		
<u>PENETRATIONS REMARKS:</u>						

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

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PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

100 FT VEGETATION HEIGHT USED.

ALS DID NOT RECEIVE A LIGHT CREDIT DUE TO NO PARALLEL TAXIWAY.

VGS PENETRATED BY FRANGIBLE LIGHTING (FIXED BY FUNCTION):

617 FT MSL LIGHTING (26-133652) 450723.66N/0873840.34W (2.25)

616 FT MSL LIGHTING (26-133319) 450723.35N/0873839.62W (1.23)

615 FT MSL LIGHTING (26-025369) 450723.76N/0873840.73W (0.05)

ORDER 8260.3 CHAPTER 2 APPLIED TO 786 WATER_TOWER (26-133657) 450508.18N/0873952.08W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

PART D: AIRSPACE

DOCKET #not required

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	2.94
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	1.20
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	030.85
DISTANCE FROM	THLD	TO 1500FT POINT	600
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	4.62
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	1.95
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	030.85
			600

THRESHOLD COORDINATES (IF STR-IN)

450723.59N/0873839.90W

ARP COORDINATES

450736.08N/0873818.75W

RUNWAY APCH END AND DIST FURTHEST FROM ARP

RUNWAY 21 DISTANCE 0.69 NM

FAF COORDINATES

450315.20N/0874209.48W

FIX NAME COORDINATES

IAF SEGOC 450041.77N/0875230.87W,
IAF KAPCE 445534.57N/0874024.93W,
IF/IAF OMUPE 445808.33N/0874627.63W

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.

TAA RADIUS: 30NM

IAF SEGOC: 450041.77N/0875230.87W, IAF KAPCE: 445534.57N/0874024.93W, IF/IAF OMUPE: 445808.33N/0874627.63W

PART E: PREPARED BY

NAME

JOHN BORDY (JACOB CLARK)

OFFICE

AJV-A33

DATE

10/21/2024

TITLE

AERONAUTICAL INFORMATION SPECIALIST

