

**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> MNM	<u>PROCEDURE NAME</u> ILS OR LOC RWY 3	<u>ORIGINAL/AMENDMENT</u> 4	<u>CITY</u> MENOMINEE	<u>STATE</u> MI
<u>AIRPORT ELEVATION</u> 625	<u>TDZE</u> 624	<u>SUPERSEDED</u> ILS OR LOC RWY 3	<u>ORIGINAL/AMENDMENT</u> 3A	<u>DATED</u> 07/14/2022
<u>FACILITY</u> I-TNQ	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 16 MAY 2024	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 3W
				<u>EPOCH YEAR</u> 1990
				<u>CANCEL/SUSPEND</u>

**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>
GRB VORTAC		ILHUP/15.98 DME					035.55	26.63	2300
ILHUP/15.98 DME	IF/IAF	FABOM/5.98 DME					033.89	10.00 (I-TNQ)	2200

**MISSED APPROACH**

**MAP:**

ILS: DA  
LOC: I-TNQ 1.16 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 1700 THEN CLIMBING LEFT TURN TO 2600 ON HEADING 180 AND GRB R-036 TO ILHUP/I-TNQ 15.98 DME AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

- PT**                      **SIDE OF COURSE**                      **OUTBOUND**                      **FT WITHIN**                      **MILES OF**                      (IAF)
- HOLD SW ILHUP, RT, 033.89 INBOUND, 2300 FT. IN LIEU OF PT (IAF), MAX 5100.
- FAC:** 033.89                      **FAF:** FABOM/5.98 DME                      **DIST FAF TO MAP:**                      **DIST FAF TO THLD:** 4.82
- MIN ALT:** ILHUP/15.98 DME 2300, FABOM/5.98 DME 2200
- DIST TO THLD FROM OM:**                      **MM:**                      **IM:**                      **150 HAT:**                      **GS ANT:** 899
- MIN GS INCPT:** 2200                      **GS ALT AT PFAF:** FABOM/5.98 DME 2200                      **OM:**                      **MM:**                      **IM:**
- GS ANGLE:** 3.00                      **34:1:**                      **20:1:**                      **TCH:** 49.5
- MSA FROM:** ARP KMMN 2400



**EQUIPMENT REQUIREMENTS NOTES:**

DME REQUIRED.

**NOTES:**

CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 1830.  
 CHART NOTE: CIRCLING RWY 14, 32 NA AT NIGHT.  
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON GRB VORTAC AIRWAY RADIALS 002 CW 085.  
 CHART NOTE: RWY 3 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
 CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-ILS 03, S-LOC 03 CATS A AND B. INCREASE S-LOC CATS C AND D VISIBILITY TO 1 3/8 SM.

**ADDITIONAL FLIGHT DATA:**

CHART 5W14 (PVT) IN PLAN AND PROFILE VIEWS.  
 CHART VDP AT 2.46 DME.  
 DISTANCE VDP TO THLD 1.30NM.

FAS OBST: 820 AAO 450407N/0874106W.  
 CHART CIRCLING ICON.

**MINIMUMS:**

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

**ALTERNATE:** NA

<b><u>CATEGORY:</u></b>	<b>A</b>			<b>B</b>			<b>C</b>			<b>D</b>			<b>E</b>		
<b><u>FINAL TYPE</u></b>	<b><u>DA/MDA</u></b>	<b><u>VIS</u></b>	<b><u>HAT/HAA</u></b>	<b><u>DA/MDA</u></b>	<b><u>VIS</u></b>	<b><u>HAT/HAA</u></b>	<b><u>DA/MDA</u></b>	<b><u>VIS</u></b>	<b><u>HAT/HAA</u></b>	<b><u>DA/MDA</u></b>	<b><u>VIS</u></b>	<b><u>HAT/HAA</u></b>	<b><u>DA/MDA</u></b>	<b><u>VIS</u></b>	<b><u>HAT/HAA</u></b>
S-ILS 03	900	1	276	900	1	276	900	1	276	900	1	276			
S-LOC 03	1080	1	456	1080	1	456	1080	1	456	1080	1	456			
CIRCLING	1200	1	575	1200	1	575	1200	1 1/2	575	1380	2 1/2	755			



**CHANGES - REASONS**

1. TERMINAL ROUTES: CHANGED "FROM GRB VORTAC TO TRIBLE LOM" TO "FROM GRB VORTAC TO ILHUP/I-TNQ 15.98 DME" AND ADDED IF/IAF "FROM ILHUP/I-TNQ 15.98 DME TO FABOM/I-TNQ 5.98 DME" - FPT REQUEST FOR NEW PROCEDUR DESGIN WITH TRIBE LOM BEING DECOMMISSIONED.
2. MISSED APPROACH: MAP FOR LOC CHANGED FROM " 4.30 NM AFTER TRIBE LOM" TO "4.82 NM AFTER FABOM/I-TNQ 5.98 DME OR AT I-TNQ/1.16 DME" - FPT REQUEST FOR NEW PROCEDUR DESGIN WITH TRIBE LOM BEING DECOMMISSIONED.
3. MISSED APPROACH INSTRUCTIONS CHANGED FROM "CLIMB TO 2200 THEN LEFT TURN DIRECT TRIBE LOM AND HOLD" TO "CLIMB TO 1700 THEN CLIMBING LEFT TURN TO 2600 ON HEADING 180 AND GRB R-036 TO ILHUP/I-TNQ 15.98 DME AND HOLD" - FPT REQUEST FOR NEW PROCEDUR DESIGN WITH TRIBE LOM BEING DECOMMISSIONED.
4. PROFILE LINE 1: DELETED PROCEDURE TURN AT TRIBE LOM - TRIBE LOM DECOMMISSIONING.
5. PROFILE LINE 2: ADDED "HOLD SW ILHUP, RT, 033.89 INBOUND, 2300 FT. IN LIEU OF PT (IAF), MAX 5100" - FPT REQUEST FOR NEW PROCEDUR DESGIN WITH TRIBE LOM BEING DECOMMISSIONED.
6. PROFILE LINE 3: LOC FAF CHANGED FROM TRIBE LOM TO FABOM/I-TNQ 5.98 DME - TRIBE LOM DECOMMISSIONING
7. PROFILE LINE 3: REMOVED DIST FAF TO MAP 4.30 - TRIBE LOM DECOMMISSIONING/DME REQUIRED FOR PROCEDURE.
8. PROFILE LINE 4: MIN ALT CHANGED FROM "TRIBE LOM 2200" TO "ILHUP/I-TNQ 15.98 DME 2300, FABOM/I-TNQ 5.98 DME 2200" - FPT REQUEST FOR NEW PROCEDURE DESIGN WITH TRIBE LOM BEING DECOMMISSIONED.
9. PROFILE LINE 5: DELETED DIST TO THLD FROM OM 4.30 - TRIBE LOM DECOMMISSIONED.
10. PROFILE LINE 6: ADDED GS ALT AT PFAF "FABOM/I-TNQ 5.98 DME 2200" AND REMOVED OM "2050" - NEW DESIGN PER FPT AND TRIBE LOM DECOMMISSIONED.
11. PROFILE LINE 8: MSA CHANGED FROM "TN LOM 2400" TO "ARP KMMN 2400" - TRIBE LOM DECOMMISSIONED.
12. EQUIPMENT REQUIREMENT NOTES: REMOVED "ADF REQUIRED" AND ADDED "DME REQUIRED" - DME REQUIRED WHEN DME ADDED TO TNQ ILS.
13. NOTES: ADDED "CHART NOTE: RWY 3 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" - 34:1 PENETRATED.
14. NOTES: DELETED CHART CNF (CFCKB) AT 445832.77N/0874606.05W - NO LONGER REQUIRED, CFCKB CANCELLED.
15. NOTES: REMOVED "HOLD SW, RT, 033.89 INBOUND" - IAW 8260.19I 8-6-6G.
16. NOTES: CHART FAS OBSTACLE CHANGED FROM "778 TANK (55-023101) 450508N/0873952W" TO FAS OBSTACLE "820 AAO 450407N/0874106W" - NEW PROCEDURE DESIGN.
17. NOTES: DELETED "CHART 916 ANTENNA 450358N/0874005W" - NO LONGER CONTROLLING OBSTACLE.
18. NOTES: ADDED "CHART VDP AT 2.46 DME DISTANCE VDP TO THLD 1.30 NM" - DME ADDED TO I-TNQ.
19. NOTES: CHANGED "CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY" TO "CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-ILS 03, S-LOC 03 CATS A AND B. INCREASE S-LOC CATS C AND D VISIBILITY TO 1 3/8 SM" - NEW EVALUATION PERFORMED AND AW 8260.3E 3-3-2.
20. ADDITIONAL FLIGHT DATA: CHANGED "CHART LARSON (PVT) AIRPORT SUBDUED" TO "CHART 5WI4 (PVT) IN PLAN AND PROFILE VIEWS" - PER 8260.19I 8-6-10T.
21. ILS DA/HAT INCREASED FROM 824/200 TO 900/276 - OCS AND MISSED APPROACH PENETRATIONS.
22. LOC DA/HAT INCREASED FROM 980/356 TO 1080/456 - NEW CONTROLLING OBSTACLES ON FINAL.

03/04/24: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 02/28/24.

1. CHANGED CHART NOTE FROM "AUTOPILOT COUPLED APPROACH NA BELOW 1574" TO "AUTOPILOT COUPLED APPROACH NA BELOW 1830."

**COORDINATED WITH:**

A4A  
  ALPA  
  AOPA  
  APA  
  HAI  
  NBAA

**OTHER:** ZMP, GRB APCH CON AMGR

*Digitally signed by*

**FLIGHT CHECKED BY**

GREGORY SCOTT WIEBE

**ALLAN WILL**

Mar 07, 2024

**OFFICE**

FIOG

**DATE**

02/27/2024

*Digitally signed by*

**DEVELOPED BY**

BRITNEY ARMENTROUT

**ALLAN WILL**

Mar 07, 2024

**OFFICE**

AJV-A422

**DATE**

08/25/2023

*Digitally signed by*

**APPROVED BY**

RAKE MCGRAW

**ALLAN WILL**

Mar 07, 2024

**OFFICE**

AJV-A422

**DATE**

**TITLE  
MANAGER**

