

FOR
FCC
USE
ONLY

FOR COMMISSION USE ONLY
FILE NO.

FCC 301

APPLICATION FOR CONSTRUCTION PERMIT FOR COMMERCIAL BROADCAST STATION

Section I - General Information

1. Legal Name of the Applicant AMC Partners Escanaba LLC		
Mailing Address 258 South Main Street		
City Fond du Lac	State or Country (if foreign address) WI	ZIP Code 54935
Telephone Number (include area code)	E-Mail Address (if available)	
FCC Registration Number 0024178485	Call Sign WDMJ	Facility ID Number 24448
2. Contact Representative (if other than applicant) John Neely		
Firm or Company Name FCC Counsel		
Mailing Address 4 Simms Court		
City Kensington	State or Country (if foreign address) MD	ZIP Code 20895
Telephone Number (include area code) 3019336304	E-Mail Address (if available) johnsneely@yahoo.com	

3. If this application has been submitted without a fee, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114):

☐ Governmental Entity ☐ Other _____

4. Application Purpose.

- | | |
|--|--|
| <input type="checkbox"/> New Station | <input type="checkbox"/> Major Modification of construction permit |
| <input type="checkbox"/> New Station with Petition for Rulemaking or Counterproposal to Amend FM Table of Allotments | <input type="checkbox"/> Minor Modification of construction permit |
| <input type="checkbox"/> New Station with Petition for Rulemaking or Counterproposal to Amend FM Table of Allotments using Tribal Priority | <input type="checkbox"/> Major Amendment to pending application |
| <input type="checkbox"/> Major Change in licensed facility | <input type="checkbox"/> Minor Amendment to pending application |
| <input checked="" type="checkbox"/> Minor Change in licensed facility | |

a. File number of original construction permit: _____

☒ N/A

b. Service Type: ☒ AM ☐ FM ☐ TV ☐ DTV ☐ DTS

c. DTV Type: ☐ Pre-Transition ☐ Post-Transition ☐ Both

d. Community of License:

City Marquette	State MI
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e. Facility Type: ☒ Main ☐ Auxiliary

If an amendment, submit as an Exhibit a listing by Section and Question Number of the portions of the pending application that are being revised.

Exhibit No.

NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.

Section II - Legal

1. **Certification.** Applicant certifies that it has answered each question in this application based on its review of the application instructions and worksheets. Applicant further certifies that where it has made an affirmative certification below, this certification constitutes its representation that the application satisfies each of the pertinent standards and criteria set forth in the application instructions and worksheets. ☒ Yes ☐ No

2. **Parties to the Application.**

- a. List the applicant, and, if other than a natural person, its officers, directors, stockholders and other entities with attributable interests, non-insulated partners and/or members. If a corporation or partnership holds an attributable interest in the applicant, list separately its officers, directors, stockholders and other entities with attributable interests, non-insulated partners and/or members. Create a separate row for each individual or entity. Attach additional pages if necessary.

(1) Name and address of the applicant and each party to the application holding an attributable interest (if other than individual also show name, address and citizenship of natural person authorized to vote the stock or holding the attributable interest). List the applicant first, officers next, then directors and, thereafter, remaining stockholders and other entities with attributable interests, and partners.

(2) Citizenship.

(3) Positional Interest: Officer, director, general partner, limited partner, LLC member, investor/creditor attributable under the Commission's **equity/debt plus** standard, etc.

(4) Percentage of votes.

(5) Percentage of total assets (equity plus debt).

(1)	(2)	(3)	(4)	(5)

- b. Applicant certifies that equity and financial interests not set forth above are non-attributable.

☐ Yes ☐ No

See Explanation in Exhibit No.

☐ N/A

3. **Other Authorizations.** List call signs, locations, and facility identifiers of all other broadcast stations in which applicant or any party to the application has an attributable interest.

Exhibit No. ☐ N/A

4. **Multiple Ownership.**

- a. Is the applicant or any party to the application the holder of an attributable radio joint sales agreement or an attributable radio or television time brokerage agreement in the same market as the station subject to this application?

☐ Yes ☒ No

If "YES," radio applicants must submit as an Exhibit a copy of each such agreement for radio stations.

Exhibit No.

Section II - Legal

- b. Applicant certifies that the proposed facility complies with the Commission's multiple ownership rules.

☒ Yes ☐ No

Radio applicants only: If "Yes," submit an Exhibit providing information regarding the market, broadcast station(s), and other information necessary to demonstrate compliance with 47 C.F.R. Section 73.3555(a).

See Explanation
in Exhibit No.

All Applicants: If "No," submit as an Exhibit a detailed explanation in support of an exemption from, or waiver of, 47 C.F.R. Section 73.3555.

- c. Applicant certifies that the proposed facility:

- (1) does not present an issue under the Commission's policies relating to media interests of immediate family members;
- (2) complies with the Commission's policies relating to future ownership interests; and
- (3) complies with the Commission's restrictions relating to the insulation and non-participation of non-party investors and creditors.

☐ Yes ☐ No

See Explanation
in Exhibit No.

- d. Does the Applicant claim status as an "eligible entity," that is, an entity that qualifies as a small business under the Small Business Administration's size standards for its industry grouping (as set forth in 13 C.F.R. Section 121.201), and holds:

☐ Yes ☐ No

See Explanation
in Exhibit No.

- (1) 30 percent or more of the stock or partnership interests and more than 50 percent of the voting power of the corporation or partnership that will own the media outlet; or
- (2) 15 percent or more of the stock or partnership interests and more than 50 percent of the voting power of the corporation or partnership that will own the media outlet, provided that no other person or entity owns or controls more than 25 percent of the outstanding stock or partnership interests; or
- (3) more than 50 percent of the voting power of the corporation that will own the media outlet (if such corporation is a publicly traded company)?

All applicants: If "Yes," submit as an Exhibit a detailed showing demonstrating proof of status as an eligible entity.

5. **Character Issues.** Applicant certifies that neither applicant nor any party to the application

- a. any broadcast application in any proceeding where character issues were left unresolved or were resolved adversely against the applicant or party to the application; or
- b. any pending broadcast application in which character issues have been raised.

☐ Yes ☐ No

See Explanation
in Exhibit No.

6. **Adverse Findings.** Applicant certifies that, with respect to the applicant and any party to the application, no adverse finding has been made, nor has an adverse final action been taken by any court or administrative body in a civil or criminal proceeding brought under the provisions of any law related to the following: any felony; mass media-related antitrust or unfair competition; fraudulent statements to another governmental unit; or discrimination.

☐ Yes ☐ No

See Explanation
in Exhibit No.

7. **Alien Ownership and Control.** Applicant certifies that it complies with the provisions of Section 310 of the Communications Act of 1934, as amended, relating to interests of aliens and foreign governments.

☐ Yes ☐ No

See Explanation
in Exhibit No.

8. **Program Service Certification.** Applicant certifies that it is cognizant of and will comply with its obligations as a Commission licensee to present a program service responsive to the issues of public concern facing the station's community of license and service area.

☐ Yes ☐ No

9. **Local Public Notice.** Applicant certifies that it has or will comply with the public notice requirements of 47 C.F.R. Section 73.3580.

☐ Yes ☐ No

10. **Auction Authorization.** If the application is being submitted to obtain a construction permit for which the applicant was the winning bidder in an auction, then the applicant certifies, pursuant to 47 C.F.R. Section 73.5005(a), that it has attached an exhibit containing the information required by 47 C.F.R. Sections 1.2107(d), 1.2110(i), 1.2112(a) and 1.2112(b), if applicable.

☐ Yes ☐ No ☐ N/A

An exhibit is required unless this question is inapplicable.

Exhibit No.

11. **Anti-Drug Abuse Act Certification.** Applicant certifies that neither applicant nor any party to the application is subject to denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862.

☒ Yes ☐ No

12. **Equal Employment Opportunity (EEO).** If the applicant proposes to employ five or more full-time employees, applicant certifies that it is filing simultaneously with this application a Model EEO Program Report on FCC Form 396-A.

☐ Yes ☐ No ☐ N/A

13. **Petition for Rulemaking/Counterproposal to Add New FM Channel to FM Table of Allotments.** If the application is being submitted concurrently with a Petition for Rulemaking or Counterproposal to Amend the FM Table of Allotments (47 C.F.R. Section 73.202) to add a new FM channel allotment, petitioner/counter-proponent certifies that, if the FM channel allotment requested is allotted, petitioner/counter-proponent will apply to participate in the auction of the channel allotment requested and specified in this application.

☐ Yes ☐ No ☐ N/A

14. **Tribal Priority - Threshold Qualifications.** Is the Applicant applying for an FM allotment set forth in a Public Notice announcing a Tribal Threshold Qualifications window? An Applicant answering "Yes" must provide an Exhibit demonstrating that it would have been qualified to add the allotment for which it is applying using the Tribal Priority.

☐ Yes ☐ No

Exhibit No.

I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith. I acknowledge that all certifications and attached Exhibits are considered material representations. I hereby waive any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and request an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

Typed or Printed Name of Person Signing <i>Chris Bernick</i>	Typed or Printed Title of Person Signing <i>President, CEO</i>
Signature <i>[Signature]</i>	Date <i>24 MARCH 2023</i>

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

SECTION III PREPARER'S CERTIFICATION

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name	Relationship to Applicant (e.g., Consulting Engineer)	
Signature	Date	
Mailing Address		
City	State or Country (if foreign address)	ZIP Code
Telephone Number (include area code)	E-Mail Address (if available)	

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith. I acknowledge that all certifications and attached Exhibits are considered material representations. I hereby waive any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and request an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

Typed or Printed Name of Person Signing	Typed or Printed Title of Person Signing
Signature	Date

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

SECTION III PREPARER'S CERTIFICATION

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name GARRETT G. LYSIAK, P.E.	Relationship to Applicant (e.g., Consulting Engineer) CONSULTING ENGINEER	
Signature <i>Garrett G. Lysiak</i>	Date 3/23/23	
Mailing Address OWL ENGINEERING, INC 5844 HAMLINE AVE. N		
City SHOREVIEW	State or Country (if foreign address) MN	ZIP Code 55126
Telephone Number (include area code) 651 784-7445	E-Mail Address (if available) GGL@OWLENG.COM	

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

SECTION III - A AM Engineering

TECHNICAL SPECIFICATIONS Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

TECH BOX

1. Frequency: 1320 kHz
2. Class: ☐ A ☐ B ☐ C ☒ D
3. Hours of Operation: ☒ Unlimited ☐ Limited ☐ Daytime ☐ Share Time ☐ Specified Hours: _____

4. **Daytime Operation:**

☐ Yes ☐ No

a. Power: 5.0 kW

b. Antenna Location Coordinates: (NAD 27)

46 ° 32 ' 43 " ☒ N ☐ S Latitude
87 ° 26 ' 40 " ☐ E ☒ W Longitude

c. **Nondirectional:**

☒ Yes ☐ No

If "Yes," complete the following items. If additional space is needed, please provide the information requested below in an Exhibit.

Exhibit No.

Theoretical 309 mV/m per kW at 1 km

Tower	
Overall height above ground (include obstruction lighting) (meters)	60.6
Antenna structure registration	<div style="text-align: center;"><u>1007590</u> Number <input type="checkbox"/> Notification filed with FAA <input type="checkbox"/> Not applicable</div>
Height of radiator above base insulator, or above base, if grounded (meters)	60
Electrical height of radiator (degrees)	95
Top-Loaded/Sectionalized apparent height (degrees)	NA
A	
B	
C	
D	

TECH BOX - DAYTIME OPERATION

d. Directional:

☐ Yes ☒ No

If "Yes," complete the following items. If additional space is needed, please provide the information requested below in an Exhibit.

Exhibit No.

Theoretical mV/m at 1 km

Standard RMS: mV/m at 1 km

Towers	1	2	3	4
Overall height above ground (include obstruction lighting) (meters)				
Antenna structure registration	<input type="checkbox"/> Number Notification filed with FAA <input type="checkbox"/> Not applicable	<input type="checkbox"/> Number Notification filed with FAA <input type="checkbox"/> Not applicable	<input type="checkbox"/> Number Notification filed with FAA <input type="checkbox"/> Not applicable	<input type="checkbox"/> Number Notification filed with FAA <input type="checkbox"/> Not applicable
Height of radiator above base insulator, or above base, if grounded (meters)				
Electrical height of radiator (degrees)				
Field ratio				
Phase (degrees)				
Spacing (degrees)				
Tower orientation (degrees)				
Tower reference switch				
Top-Loaded/Sectionalized apparent height (degrees)				
A				
B				
C				
D				

Augmented:

☐ Yes ☐ No

If "Yes," complete the following:

Augmented RMS: mV/m at 1 km

Azimuth Span Augmentation radiation
(mV/m at 1 km)

TECH BOX - NIGHTTIME OPERATION

5. Nighttime Operation:

☒ Yes ☐ No

a. Power: 0.140 kW

b. Antenna Location Coordinates: (NAD 27)

46 ° 32 ' 43 " ☒ N ☐ S Latitude
87 ° 26 ' 40 " ☐ E ☒ W Longitude

c. Nondirectional:

☒ Yes ☐ No

If "Yes," complete the following items. If additional space is needed, please provide the information requested below in an Exhibit.

Exhibit No.

Theoretical 309 mV/m per kW at 1 km

Tower	
Overall height above ground (include obstruction lighting) (meters)	60.6
Antenna structure registration	<u>1007590</u> Number <input type="checkbox"/> Notification filed with FAA <input type="checkbox"/> Not applicable
Height of radiator above base insulator, or above base, if grounded (meters)	60
Electrical height of radiator (degrees)	95
Top-Loaded/Sectionalized apparent height (degrees)	NA
A	
B	
C	
D	

TECH BOX - NIGHTTIME OPERATION

d. Directional:

☐ Yes ☒ No

If "Yes," complete the following items. If additional space is needed, please provide the information requested below in an Exhibit.

Exhibit No. _____

Theoretical _____ mV/m at 1 km

Standard RMS: _____ mV/m at 1 km

Towers	1	2	3	4
Overall height above ground (include obstruction lighting) (meters)				
Antenna structure registration	<input type="checkbox"/> Number Notification filed with FAA <input type="checkbox"/> Not applicable	<input type="checkbox"/> Number Notification filed with FAA <input type="checkbox"/> Not applicable	<input type="checkbox"/> Number Notification filed with FAA <input type="checkbox"/> Not applicable	<input type="checkbox"/> Number Notification filed with FAA <input type="checkbox"/> Not applicable
Height of radiator above base insulator, or above base, if grounded (meters)				
Electrical height of radiator (degrees)				
Field ratio				
Phase (degrees)				
Spacing (degrees)				
Tower orientation (degrees)				
Tower reference switch				
Top-Loaded/Sectionalized apparent height (degrees)				
A				
B				
C				
D				

Augmented:

☐ Yes ☐ No

If "Yes," complete the following:

Augmented RMS: _____ mV/m at 1 km

Azimuth

Span

Augmentation radiation

TECH BOX - CRITICAL HOURS OPERATION

6. Critical Hours Operation:

☐ Yes ☒ No

a. Power: _____ kW

b. Antenna Location Coordinates: (NAD 27)

____° ____' ____" ☐ N ☐ S Latitude
 ____° ____' ____" ☐ E ☐ W Longitude

c. Nondirectional:

☐ Yes ☐ No

If "Yes," complete the following items. If additional space is needed, please provide the information requested below in an Exhibit.

Exhibit No.

Theoretical _____ mV/m per kW at 1 km

Tower	
Overall height above ground (include obstruction lighting) (meters)	
Antenna structure registration	<div style="text-align: center;">Number</div> <input type="checkbox"/> Notification filed with FAA <input type="checkbox"/> Not applicable
Height of radiator above base insulator, or above base, if grounded (meters)	
Electrical height of radiator (degrees)	
Top-Loaded/Sectionalized apparent height (meters)	
A	
B	
C	
D	

TECH BOX - CRITICAL HOURS OPERATION

d. Directional:

☐ Yes ☒ No

if "Yes," complete the following items. If additional space is needed, please provide the information requested below in an Exhibit.

Exhibit No.

Theoretical _____ mV/m at 1 km

Standard RMS: _____ mV/m at 1 km

Towers	1	2	3	4
Overall height above ground (include obstruction lighting) (meters)				
Antenna structure registration	<input type="checkbox"/> Number Notification filed with FAA <input type="checkbox"/> Not applicable	<input type="checkbox"/> Number Notification filed with FAA <input type="checkbox"/> Not applicable	<input type="checkbox"/> Number Notification filed with FAA <input type="checkbox"/> Not applicable	<input type="checkbox"/> Number Notification filed with FAA <input type="checkbox"/> Not applicable
Height of radiator above base insulator, or above base, if grounded (meters)				
Electrical height of radiator (degrees)				
Field ratio				
Phase (degrees)				
Spacing (degrees)				
Tower orientation (degrees)				
Tower reference switch				
Top-Loaded/Sectionalized apparent height (degrees)				
A				
B				
C				
D				

Augmented:

☐ Yes ☐ No

If "Yes," complete the following:

Augmented RMS: _____ mV/m at 1 km

Azimuth

Span

Augmentation radiation

NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.

CERTIFICATION

7. **Broadcast Facility.** The proposed facility complies with the engineering standards and assignment requirements of 47 C.F.R. Sections 73.24(e), 73.24(g), 73.33, 73.45, 73.150, 73.152, 73.160, 73.182(a)-(i), 73.186, 73.189, 73.1650. **Exhibit Required.**
- ☒ Yes ☐ No See Explanation in Exhibit No.
Exhibit No.
8. **Community Coverage.** The proposed facility complies with community coverage requirements of 47 C.F.R. Section 73.24(i).
- ☒ Yes ☐ No See Explanation in Exhibit No.
Exhibit No.
9. **Main Studio Location.** The proposed main studio location complies with requirements of 47 C.F.R. Section 73.1125.
- ☒ Yes ☐ No See Explanation in Exhibit No.
Exhibit No.
10. **Interference.** The proposed facility complies with all of the following applicable rule sections. Check all those that apply. An exhibit is required for each applicable section.
- Groundwave.**
- a. ☒ 47 C.F.R. Section 73.37
- Skywave.**
- b. ☒ 47 C.F.R. Section 73.182.
- Critical Hours.**
- c. ☐ 47 C.F.R. Section 73.187.
11. **Environmental Protection Act.** The proposed facility is excluded from environmental processing under 47 C.F.R. Section 1.1306 (i.e., the facility will not have a significant environmental impact and complies with the maximum permissible radio frequency electromagnetic exposure limits for controlled and uncontrolled environments). Unless the applicant can determine compliance through the use of the RF worksheets in Appendix A, **an Exhibit is required.**
- By checking "Yes" above, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radio frequency electromagnetic exposure in excess of FCC guidelines.
- ☒ Yes ☐ No See Explanation in Exhibit No.
Exhibit No.
12. **Community of License Change - Section 307(b).** If the application is being submitted to change the facility's community of license, then the applicant certifies that it has attached an exhibit containing information demonstrating that the proposed community of license change constitutes a preferential arrangement of assignments under Section 307(b) of the Communications Act of 1934, as amended (47 U.S.C. Section 307(b)).
- ☐ Yes ☐ No ☒ N/A
Exhibit No.
- An exhibit is required unless this question is not applicable.**
13. **Dispositive Section 307(b) Preference**
- a. Was the AM facility that is the subject of this application awarded on the basis of a dispositive Section 307(b) preference?
- ☐ Yes ☒ No
Exhibit No.
- b. If yes to 13(a), applicant certifies that: (i) the community of license proposed in the subject application is the same as that on which the Section 307(b) preference was based, or (ii) as shown in the attached Exhibit, the service area proposed in the subject application is substantially equivalent to the service area on which the Section 307(b) preference was based.
- ☐ Yes ☐ No ☒ N/A
Exhibit No.
- c. If yes to 13(a) and no to 13(b), applicant certifies that, although in the subject application it proposes to: (i) change the community of license, or (ii) modify service to the area on which the Section 307(b) preference was based, it has for a period of four years of on-air operations: (1) served the community of license, or (2) provided full service to the area on which the Section 307(b) preference was based.
- ☐ Yes ☐ No
Exhibit No.

WDMJ Multiple Ownership Exhibit

This application for reduction in electrical tower height will create no new same service overlap with other attributable broadcast interests of this licensee.

**ENGINEERING STATEMENT FOR AN
APPLICATION FOR A CONSTRUCTION PERMIT
WDMJ (AM) MARQUETTE, MI
FACILITY ID# 24448
1320 KHZ 5.0 KW DAY 0.14 KW NIGHT
MARCH 18, 2023**

TABLE OF CONTENTS

	Engineering Statement
Figure 1	Site Location Map
Figure 2	Aerial Photo of Site
Figure 3	Day Allocation Study
Figure 4	Night Allocation Study
Figure 5	Present and Proposed Contours

ENGINEERING STATEMENT

This technical exhibit, of which this statement is a part, has been prepared on behalf of AMC Partners- Escanaba, LLC (hereafter "**AMC**") in accordance with the Rules and Regulations of the Federal Communications Commission pursuant to the provisions of Section III-A of FCC Form 301. This instant proposal provides a modification to a licensed facility for a modified facility. This application proposes to change the electrical tower height from 126° to 95°. This application is required due to a tower collapse and proposed reconstruction at a lower overall height.

PROPOSED TRANSMITTER LOCATION

AMC proposes to continue operation with the of the antenna system described by the geographic coordinates:

(NAD 27)
N 46° 32' 43" North Latitude
W 87° 26' 40" West Longitude

(NAD 83)
N 46° 32' 42.8" North Latitude
W 87° 26' 40.5" West Longitude

Figure 1 shows the proposed tower location on the Marquette, Michigan 7.5 minute USGS topographic map. Figure 2 is the aerial photograph of the tower site area and the surrounding area. The terrain surrounding the site does not contain any abrupt changes in elevation.

The tower has tower registration (ASR3 1007590) that will be modified to reflect the lower tower height. Due to the decrease in the overall height of the tower no lighting will be required since it is below the 200-foot height that would require lighting.

GROUND SYSTEM

The facility will use the existing ground system consisting of 120 equally spaced 90° (56 m).

DAYTIME ALLOCATION DATA

A daytime allocation study was made utilizing FCC Figure M-3 as shown in Figure 3. This allocation study shows that no interference is predicted with the instant proposal..



NIGHT ALLOCATION DATA

A night allocation study was performed and it shows no interference predicted. The results of the study are found in Figure 4.

Signal Coverage

Figure 5 shows the 5mv and 2 mv signal contours for both the licensed values and the new proposed application. As can be seen all of Marquette is covered by the contours.

ENVIRONMENTAL IMPACT STATEMENT

The instant proposal is categorically excluded from environmental processing since none of the conditions of §1.1306(b)(2) and (3) would be involved for the following reasons:

- 1) The site proposed is not in or near any location referenced in §1.1306(b)(1) as being of environmental interest.
- 2) The provisions of §1.1306(b)(2) relating to the use of high intensity strobe lighting does not apply since there is no lighting requirement.
- 3) Compliance to §1.1306(b)(3) regarding human exposure to RF radiation was examined for multiple sources. A search was made about the proposed site coordinates to locate any additional sources of RF radiation and none were found.

The present base fencing complies with the requirements in OST Bulletin Number 65, August 1997 . Access to RF circuitry is restricted and signs are posted warning of the potential danger. When persons require access to the site, tower or antenna for maintenance purposes, the transmitter power will be reduced or completely eliminated to comply with ANSI guidelines. Hence, the conditions of §1.1306(b)(3) would not be involved.



CONCLUSIONS

Based on the engineering studies provided, the following conclusions can be obtained:

- (1) Implementation of the instant proposal will provide Marquette, Mi with a continued full time aural broadcast service.
- (2) The proposal is in complete conformance with all technical rules of the Federal Communications Commission.

Garrett G. Lysiak, P.E.

March 18, 2023

(BUCKROE)

087° 28' 05.1817" W
046° 34' 07.1743" N

(MARQUETTE NW)

MARQUETTE QUADRANGLE
MICHIGAN
TOPOGRAPHIC SERIES

(Unavailable)

087° 25' 13.1729" W
046° 34' 07.1743" N

(NEGAUNEE)

(Unavailable)

046° 31' 19.5809" N
087° 28' 05.1817" W

046° 31' 19.5809" N
087° 25' 13.1729" W

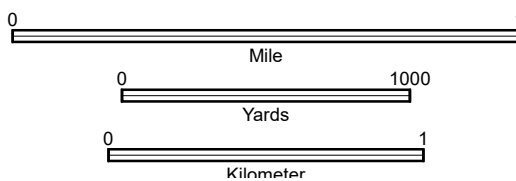
(PALMER)

(HARVEY)

Declination

★
MS
GN 0° 19' W
MN 5° 01' W

(SANDS)
SCALE 1:24000



CONTOUR INTERVAL 20 FT
[BASE MAP VERTICAL DATUM]

MARQUETTE, MI
JAN 1, 1975

FIGURE 1 - SITE LOCATION





Tower Rd

SITE (NAD27)
N 46° 32' 43"
W 87° 26' 40"

BASE FENCE

FIGURE 2 - AERIAL VIEW

200 ft



FIGURE 3 - DAY ALLOCATION STUDY

AM Daytime Study

Reference Station:

Call: WDMJ

Freq: 1320 kHz

MARQUETTE, MI, US

Lat: 46-32-43 N

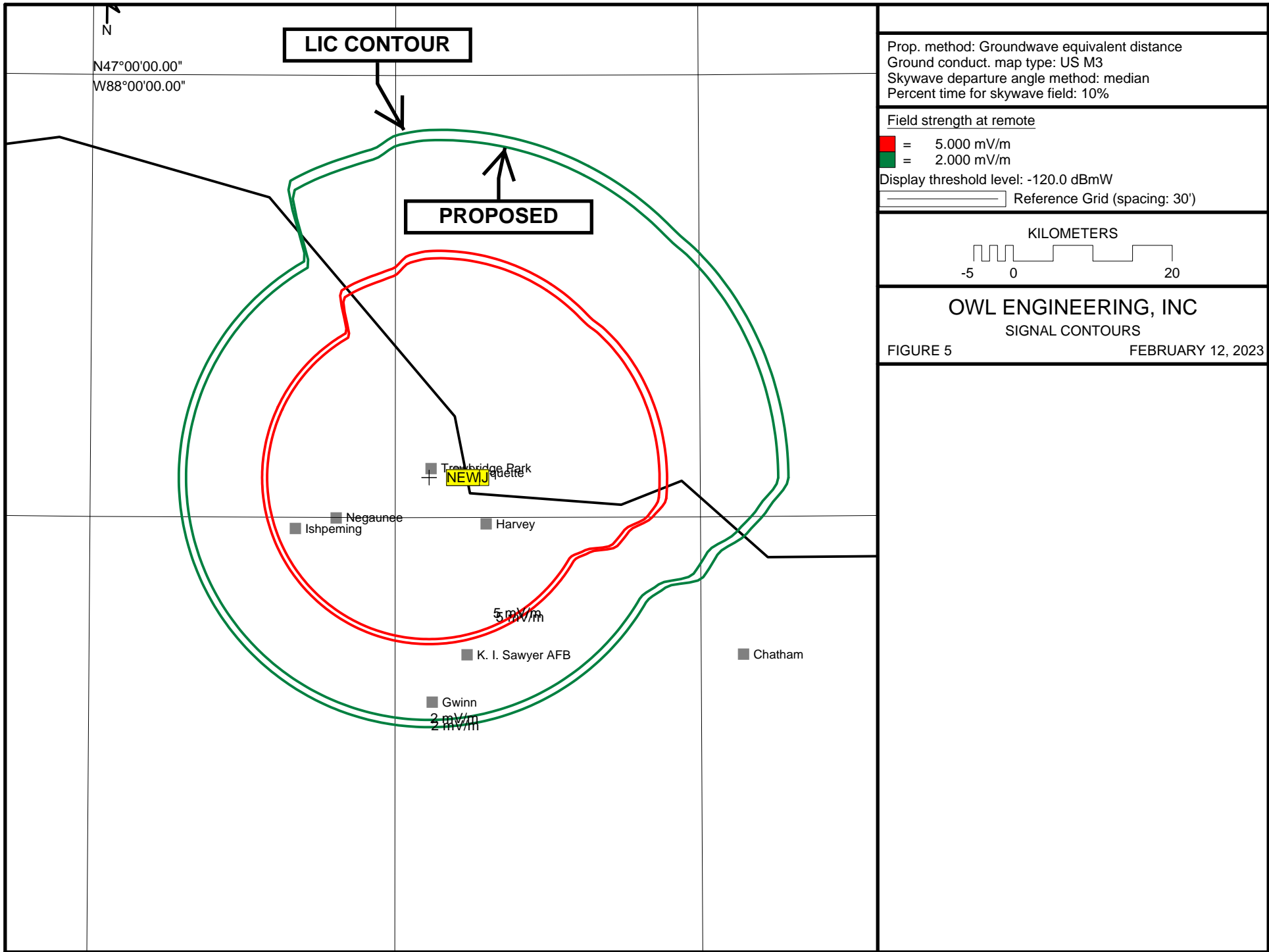
Power: 5.0 kW

Lng: 087-26-40 W

Theo RMS: 309.07 mV/m @ 1km

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swrch	TL Swrch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	95.0	0	0	0.0	0.0	0.0	0.0

Call	Freq	City	ST	Dist	Azi	In	Out
WCCW	1310	TRAVERSE CITY	MI	249.7	146.9	36.14	46.70
WFHR	1320	WISCONSIN RA	WI	301.6	217.5	39.30	50.05
WAGN	1340	MENOMINEE	MI	160.3	184.5	123.38	123.38
WHBL	1330	SHEBOYGAN	WI	314.7	184.1	115.30	124.47
WILS	1320	LANSING	MI	489.3	153.9	129.58	138.10
WMBN	1340	PETOSKEY	MI	233.7	125.6	190.70	190.70
KOZY	1320	GRAND RAPIDS	MN	463.3	276.5	164.19	192.06
WIBA	1310	MADISON	WI	424.2	201.0	249.35	258.34
WIBA	1310	MADISON	WI	421.4	200.0	258.30	264.68
WTRX	1330	FLINT	MI	497.7	144.2	311.90	315.40
WKAN	1320	KANKAKEE	IL	601.8	182.7	344.02	318.44
KMAQ	1320	MAQUOKETA	IA	556.3	206.1	338.56	319.11
WLOL	1330	MINNEAPOLIS	MN	499.5	244.8	341.91	347.68
WKTA	1330	EVANSTON	IL	490.8	184.0	375.07	370.62
WNTA	1330	ROCKFORD	IL	496.7	194.3	377.17	373.17
CJMR	1320	OAKVILLE	ON	696.2	122.2	441.97	414.41
WOBL	1320	OBERLIN	OH	721.1	146.1	451.52	435.47
KGLB	1310	GLENCOE	MN	556.5	247.0	454.56	446.33
KELO	1320	SIOUX FALLS	SD	799.7	241.7	439.95	478.78
KNIA	1320	KNOXVILLE	IA	736.2	216.2	535.82	504.88





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651-784-7445 • Fax 651-784-7541

FIGURE 4 Night Allocation Protection Report

Call: WDMJ
Freq: 1320 kHz
MARQUETTE, MI, US
Hours: D
Lat: 46-32-43 N [NAD27]
Lng: 087-26-40 W
Power: 0.14 kW
Theo RMS: 309.07 mV/m @ 1km @ 1kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swch	TL Swch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	95.0	0	0	0.0	0.0	0.0	0.0

Call Letters	Ct	St	City	Azi (deg)	Ang Low (deg)	Ang High (deg)	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
WFHR	US	WI	WISCONSIN RAPID	219.07	24.85	37.73	181.35	3.635	100.22	100.18	0.05
50% = 8.052, 25% = 10.9; WKAN=6.01 KELO=5.36 KOZY=4.00 WDMJ=3.64 WIBA=3.04 WILS=2.81 WCVG=2.75											
KOZY	US	MN	GRAND RAPIDS	280.87	16.26	26.30	98.91	2.208	111.62	108.70	2.92
50% = 4.646, 25% = 6.644; WLOL=4.05 CHMB/A=2.28 KNOX=2.26 KHRT=2.22 WDMJ=2.21 WKAN=2.06 KELO=1.85											
WILS	US	MI	LANSING	152.06	15.29	24.92	99.61	2.246	112.72	109.50	3.21
50% = 7.082, 25% = 8.839; WJAS=6.06 WCVG=3.67 WKAN=3.51 CJMR/A=3.25 WDMJ=2.25											
WJAS	US	PA	PITTSBURGH	135.31	6.97	12.71	37.79	0.902	119.38	114.33	5.05
50% = 2.415, 25% = 3.607; CJMR/A=2.03 KWHN=1.31 WCVG=1.18 WCOG=1.13 WARA=0.98 KSIV=0.97 WILS=0.95 WDER=0.94 WDMJ=0.90											
KELO	US	SD	SIOUX FALLS	248.11	8.43	14.87	45.31	1.981	218.66	113.76	104.90
50% = 5.7, 25% = 8.131; KPTY=3.40 KWHN=3.37 KLWN=3.09 KSIV=2.42 KXYZ=2.33 KHRT=2.25 CHMB/A=2.17 WJAS=2.16 WKAN=2.00 KOZY=1.98											
WOBL	US	OH	OBERLIN	142.61	9.67	16.71	55.60	2.513	225.93	113.14	112.80
50% = 9.353, 25% = 10.05; WJAS=9.35 CJMR/A=3.68											



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Call Letters	Ct St City	Azi (deg)	Ang Low (deg)	Ang High (deg)	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
WKAN	US IL KANKAKEE	182.99	12.08	20.28	75.53	4.234	280.26	111.76	168.50
50% = 14.873, 25% = 16.936; WJAS=10.10 WCVG=8.20 WILS=7.21 WOBL=6.54 WGOC=4.78									
WIBA	US WI MADISON	202.38	17.78	28.43	121.82	0.922	378.59	107.41	271.18
50% = 2.448, 25% = 3.75; UNK-A=1.53 WTLC=1.47 KDLS=1.23 KGLB=1.20 KTCK=1.18 WRDZ=1.18 WGH=1.02 KZRG=1.00 WCCW=0.98 KOKX=0.92									
WIBA	US WI MADISON	201.20	17.91	28.60	122.90	0.949	386.10	107.32	278.78
50% = 2.419, 25% = 3.796; UNK-A=1.53 WTLC=1.35 WRDZ=1.30 KGLB=1.19 KTCK=1.18 KDLS=1.17 WCCW=1.08 KOKX=1.07 WGH=1.03 KZRG=1.01									
WHBL	US WI SHEBOYGAN	184.25	23.85	36.48	174.17	1.471	422.20	101.21	320.99
50% = 5.149, 25% = 5.883; KPTY=3.81 WTRX=2.48 WYRD=2.42 KNSS=2.23 WBGW=1.77									