

AM BROADCAST STATION LICENSE

Call Sign : WION

LICENSEE:

MacPherson Broadcasting, Inc

1. Community of License. . . : Ionia, Michigan
2. Transmitter location. : 1150 HAYNOR ROAD
IONIA, MI

North Latitude. : 43° 00' 16"
West Longitude. : 85° 05' 09"

6. Antenna and ground system:
ATTACHED

3. Transmitter(s): Type Accepted. See Sections 73.1660,
73.1665 and 73.1670 of the Commission's rules)

4. Main Studio Location: (See Section 73.1125)
1150 HAYNOR ROAD
IONIA, MI

5. Remote control location

7. Obstruction marking and lighting specifications - FCC Form 715, paragraphs: 1, 3, 11 & 21 FOR TOWERS 1 AND
2: PARAGRAPHS 1, 3, 12 AND 21 FOR TOWER 3.

8. Frequency. : 1430 kHz

9. Nominal power (kW). : 5 Day 0.33 Night

Antenna input power (kW) :

5.4 Day ☐ Non-directional antenna: current 10.39 amperes: resistance 50 ohms.
☒ Directional antenna :

0.356 Night ☐ Non-directional antenna: current 2.67 amperes: resistance 50 ohms.
☒ Directional antenna :

10. Hours of operation : AS IN BR2789

11. Conditions. :

Subject to the provisions of the Communications Act of 1934, as amended, subsequent Acts, Treaties, and Commission rules made thereunder, and further subject to conditions set forth in this license,¹ the LICENSEE is hereby authorized to use and operate the radio transmitting apparatus herein described for the purpose of broadcasting for the term ending 3 A.M. Local Time

OCT. 1, 1996

The Commission reserves the right during said license period of terminating this license or making effective any change, or modification of this license which may be necessary to comply with any decision of the Commission rendered as a result of any hearing held under the rules of the Commission prior to the commencement of this license period.

The license is issued on the licensee's representation that the statements contained in the licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve the public interest, convenience, or necessity to the full extent of the privileges herein conferred.

This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. This license is subject to the right of control by the Government of the United States conferred by section 606 of the Communications Act of 1934, as amended.

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FEDERAL
COMMUNICATIONS
COMMISSION



¹ This license consists of this page and pages 2 & 3

Dated: MAY 23 1995

File No.: BZ-950201AA

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1. **DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM**

No. and Type of Elements: Three uniform, cross-section, guyed, series excited vertical steel radiators. Communications-type antenna mounted near top of tower N (#3). STL Antenna mounted at 57.9m level of tower C (#2). Theoretical RMS: 172.41 mV/m at 1 km, night; 671.10 mV/m at 1 km, day. Augmented RMS: 181.206 mV/m at 1 km, night; 705.339 mV/m at 1 km day. Q=6.88, night; 26.76, day.

Height above Insulators: 59.45m (102°)

Overall Height: 60.67m

Spacing and Orientation: 46.34m (80°) on a line bearing 345° true.

Non-Directional Antenna: None used

Ground System consists of 120 equally spaced, buried copper radials 60.97m in length where shortened at property lines or common transverse strap about the base of each tower.

2. **THEORETICAL SPECIFICATIONS**

Towers:	<u>S(#1)</u>	<u>C(#2)</u>	<u>N(#3)</u>
Phasing: Day & Night:	144°	0°	-144°
Field Ratio: Day & Night:	0 .953	1.0	0.343

3. **OPERATING SPECIFICATIONS**

Phase Indication*: Day & Night:	142°	0°	-146°
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Antenna Base			
Current Ratio: Night:	0.431	1.0	0.741
Day:	0.429	1.0	0.738

Antenna Monitor Sample			
Current Ratio: Day & Night:	0.425	1.0	0 .735

*As indicated by Potomac Instruments AM-19 (204) antenna monitor.
Antenna sampling system approved under Section 73.68 (b) of the Rules.

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DESCRIPTION OF AND FIELD INTENSITY ST MONITORING POINTS:

Direction of 105° True North. Proceed south from the transmitter on Raynor Road 1.2 miles to Rt. 21, known as the Blue Water Highway. Proceed east on Rt. 21, 3 miles to a point 0.1 mile northeast of its intersection with Prairie Creek Road. Point is on the west side of the road near the top of a rise. This is point No. 23 on this radial. Distance from antenna 3.25 miles. The field intensity measured at this point should not exceed 24.3 mV/m.

Direction of 165° True North. Proceed south from the transmitter site on Haynor Road 1.2 miles to M-21. Turn left (EAST) on M-21, and go 0.7 miles to the intersection with southbound M-66. Turn right (SOUTH) on M-66, and proceed 2.6 miles to Tuttle Road. Turn left (EAST) on Tuttle Road, and proceed 0.4 miles to the point. The point is on the north side of the road, in the Rather School parking lot. This is POINT #26 on the Radial. Distance from the antenna 3.8 miles. The field intensity measured at this point should not exceed 28.4 mV/m, day.

Direction of 210° True North. Proceed south from the transmitter on Raynor Road 1.2 miles to Rt. 21, known as Blue Water Highway. Proceed west and southwest on Rt. 21 one mile. Point is located on the north side of the highway in the service road to the Michigan Medium Security Prison. A highway department benchmark is located on the south side of highway. This is Point No. 16 on this radial. Distance from the antenna 2.0 miles. The field intensity measured at this point should not exceed 41.5 mV/m.

Direction of 240° True North. Proceed south from the transmitter on Raynor Road 1.2 miles to Rt. 21, known as the Blue Water Highway. Proceed west and southwest on Rt. 21, 2.7 miles to Bellamy Rd., 0.75 mile N. on Bellamy Road. Point is on the west side of the road, 40 feet north of the top on the rise, opposite house numbered 196 Bellamy Road. This is point No. 23 on this radial. Distance from antenna 2.83 miles. The field intensity measured at this point should not exceed 29.5 mV/m.