



United States of America
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

Authorizing Official:

Official Mailing Address:

PACKER RADIO WION, LLC
 1150 HAYNOR ROAD
 IONIA MI 48846

Son Nguyen
 Son Nguyen
 Supervisory Engineer
 Audio Division
 Media Bureau

Facility Id: 39533

Call Sign: WION

License File Number: BZ-20100309ACN

Grant Date: **JUL 28 2010**
 This license expires 3:00 a.m.
 local time, October 01, 2012.

Subject to the provisions of the Communications Act of 1934, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this license, the licensee is hereby authorized to use and operate the radio transmitting apparatus herein described.

This license is issued on the licensee's representation that the statements contained in 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. This license is subject to the right of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934.

Hours of Operation: Unlimited

Average hours of sunrise and sunset:
 Local Standard Time (Non-Advanced)

Jan.	8:15 AM	5:30 PM	Jul.	5:15 AM	8:15 PM
Feb.	7:45 AM	6:15 PM	Aug.	5:45 AM	7:45 PM
Mar.	7:00 AM	6:45 PM	Sep.	6:15 AM	6:45 PM
Apr.	6:00 AM	7:15 PM	Oct.	7:00 AM	6:00 PM
May	5:15 AM	8:00 PM	Nov.	7:30 AM	5:15 PM
Jun.	5:00 AM	8:15 PM	Dec.	8:00 AM	5:00 PM

Call sign: WION

License No.: BZ-20100309ACN

Name of Licensee: PACKER RADIO WION, LLC

Station Location: IONIA, MI

Frequency (kHz): 1430

Station Class: B

Antenna Coordinates:

Day

Latitude: N 43 Deg 00 Min 16 Sec

Longitude: W 85 Deg 05 Min 09 Sec

Night

Latitude: N 43 Deg 00 Min 16 Sec

Longitude: W 85 Deg 05 Min 09 Sec

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

Nominal Power (kW): Day: 4.7 Night: 0.33

Antenna Input Power (kW): Day: 4.7 Night: 0.356

Antenna Mode: Day: ND Night: DA

(DA=Directional Antenna, ND=Non-directional Antenna; CH=Critical Hours)

Current (amperes): Day: 7.23 Night: 2.67

Resistance (ohms): Day: 90 Night: 50

Non-Directional Antenna: Day

Radiator Height: 59.4 meters; 102 deg

Theoretical Efficiency: 313.822 mV/m/kw at 1km

Antenna Registration Number(s):

Day:

Tower No.	ASRN	
1	None	60.6

Night:

Tower No.	ASRN	
1	None	60.6
2	None	60.6
3	None	60.6

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Night: 172.41
 Standard RMS (mV/m/km):
 Augmented RMS (mV/m/km): Night: 181.21
 Q Factor: Night: 6.88

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.9530	144.000	0.0000	0.000	0	102.0
2	1.0000	0.000	80.0000	345.000	0	102.0
3	0.3430	-144.000	160.0000	345.000	0	102.0

* Tower Reference Switch

- 0 = Spacing and orientation from reference tower
- 1 = Spacing and orientation from previous tower

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
1	105.0	10.0	62.00
2	160.0	10.0	88.90
3	165.0	10.0	88.90

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	148	0.5
2	0	1
3	-151	0.68

Antenna Monitor: POTOMAC INSTRUMENTS AM-19

Sampling System Approved Under Section 73.68 of the Rules.

Monitoring Points:

Night Operation:

Radial (Deg. T)	Distance From Transmitter (km)	Maximum Field Strength (mV/m)
105	5.23	6.24
165	6.12	8.2
210	3.22	11.2
240	4.55	7.57

Special operating conditions or restrictions:

1 The permittee/licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

2 Location of Monitoring Points:

Direction of 105° True North: Proceed south from the transmitter on Haynor 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. *M-21*

Direction of 165° True North: Proceed south from the transmitter on Raynor Road 1.2 miles to M-21. Turn left (east) on M-21, and go 0.7 miles to the intersection with south bound 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 No. 26 on this radial. *Schoa*

Direction of 210° True North: Proceed south from the transmitter on Haynor Road 1.2 miles to Rt. 21, known as the Blue Water Highway. Proceed west and southwest on Rt. 21, 1.0 miles. 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. *P*

Direction of 240° True North: Proceed south from the transmitter on Haynor 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 Road, 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. *BL*

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

*** END OF AUTHORIZATION ***