



United States of America
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

Authorizing Official:

Official Mailing Address:

ROCHELLE BROADCASTING CO., INC.
P O BOX 177
ROCHELLE IL 61068

Son Nguyen
Supervisory Engineer
Audio Division
Media Bureau

Facility Id: 57268

Call Sign: WRHL

License File Number: BMML-20191127AAW

Grant Date: July 14, 2020

This license expires 3:00 a.m.
local time, December 01, 2020.

The license modifies license no.: BML-20141223ABX

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: Daytime with Secondary nighttime

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

| | | | | | |
|------|---------|---------|------|---------|---------|
| Jan. | 7:30 AM | 4:45 PM | Jul. | 4:30 AM | 7:30 PM |
| Feb. | 7:00 AM | 5:30 PM | Aug. | 5:00 AM | 7:00 PM |
| Mar. | 6:15 AM | 6:00 PM | Sep. | 5:30 AM | 6:00 PM |
| Apr. | 5:15 AM | 6:30 PM | Oct. | 6:15 AM | 5:15 PM |
| May | 4:30 AM | 7:15 PM | Nov. | 6:45 AM | 4:30 PM |
| Jun. | 4:15 AM | 7:30 PM | Dec. | 7:15 AM | 4:30 PM |

Callsign: WRHL

License No.: BMML-20191127AAW

Name of Licensee: ROCHELLE BROADCASTING CO., INC.

Station Location: ROCHELLE, IL

Frequency (kHz): 1060

Station Class: D

Antenna Coordinates:

Day

Latitude: N 41 Deg 55 Min 24 Sec

Longitude: W 89 Deg 03 Min 30 Sec

Night

Latitude: N 41 Deg 55 Min 24 Sec

Longitude: W 89 Deg 03 Min 30 Sec

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

Nominal Power (kW): Day: 0.25 Night: 0.050

Antenna Input Power (kW): Day: 0.27 Night: 0.054

Antenna Mode: Day: DA Night: DA

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

Current (amperes): Day: 2.32 Night: 1.04

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

| Tower No. | ASRN | Overall Height (m) |
|-----------|---------|--------------------|
| 1 | 1009547 | |
| 2 | 1009546 | |
| 3 | 1009548 | |

Night:

| Tower No. | ASRN | Overall Height (m) |
|-----------|---------|--------------------|
| 1 | 1009547 | |
| 2 | 1009546 | |
| 3 | 1009548 | |

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 152.89 Night: 45.17
 Standard RMS (mV/m/km): Night: 48.58
 Augmented RMS (mV/m/km): Day: 162.09
 Q Factor: Day: 10 Night: 10

Theoretical Parameters:

Day Directional Antenna:

| Tower No. | Field Ratio | Phasing (Deg.) | Spacing (Deg.) | Orientation (Deg.) | Tower Ref Switch * | Height (Deg.) |
|-----------|-------------|----------------|----------------|--------------------|--------------------|---------------|
| 1 | 1.0000 | 0.000 | 0.0000 | 0.000 | 0 | 86.0 |
| 2 | 1.5300 | 106.000 | 90.0000 | 80.000 | 0 | 86.0 |
| 3 | 0.6400 | -148.000 | 180.0000 | 80.000 | 0 | 86.0 |

* 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 | 0.0 | 14.0 | 77.25 |
| 2 | 7.0 | 14.0 | 64.37 |
| 3 | 15.0 | 16.0 | 48.28 |
| 4 | 32.0 | 34.0 | 22.53 |
| 5 | 50.0 | 30.0 | 14.48 |
| 6 | 65.0 | 30.0 | 14.48 |
| 7 | 80.0 | 30.0 | 14.48 |
| 8 | 97.0 | 34.0 | 14.48 |
| 9 | 115.0 | 36.0 | 14.48 |
| 10 | 137.0 | 44.0 | 30.58 |
| 11 | 160.0 | 40.0 | 80.47 |
| 12 | 340.0 | 20.0 | 141.62 |
| 13 | 350.0 | 20.0 | 107.83 |

Theoretical Parameters:

Night Directional Antenna:

| Tower No. | Field Ratio | Phasing (Deg.) | Spacing (Deg.) | Orientation (Deg.) | Tower Ref Switch * | Height (Deg.) |
|-----------|-------------|----------------|----------------|--------------------|--------------------|---------------|
| 1 | 1.0000 | 0.000 | 0.0000 | 0.000 | 0 | 86.0 |
| 2 | 1.5300 | 106.000 | 90.0000 | 80.000 | 0 | 86.0 |

Theoretical Parameters:

Night Directional Antenna:

| Tower No. | Field Ratio | Phasing (Deg.) | Spacing (Deg.) | Orientation (Deg.) | Tower Ref Switch * | Height (Deg.) |
|-----------|-------------|----------------|----------------|--------------------|--------------------|---------------|
| 3 | 0.6400 | -148.000 | 180.0000 | 80.000 | 0 | 86.0 |

* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Day Directional Operation:

| Twr. Phase No. (Deg.) | Antenna Monitor Sample Current Ratio |
|-----------------------|--------------------------------------|
| 1 -102.6 | 0.562 |
| 2 0 | 1 |
| 3 104.2 | 0.443 |

Night Directional Operation:

| Twr. Phase No. (Deg.) | Antenna Monitor Sample Current Ratio |
|-----------------------|--------------------------------------|
| 1 -102.6 | 0.562 |
| 2 0 | 1 |
| 3 104.2 | 0.443 |

Antenna Monitor: POTOMAC INSTRUMENTS AM-19 (204)

Sampling System Approved Under Section 73.68 of the Rules.

Special operating conditions or restrictions:

- 1 The ground system is of standard design, consisting of 120 equally-spaced buried bare copper wire radials around each tower 70.8 meters long (90°) except for those which intersect where three-inch copper straps terminate the radial intersections. A 3" strap interconnects the towers to each other and to the phasor and transmitter.

*** END OF AUTHORIZATION ***