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

Grant Date: March 31, 2015

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

Facility Id: 57268

Call Sign: WRHL

License File Number: BML-20141223ABX

This supersedes authorization of same date to correct the nighttime nominal power. (HKC 7/21/2015)

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

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: 0.05

Antenna Input Power (kW): Day: 0.27 Night: 0.05

Antenna Mode: Day: DA Night: DA

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

Current (amperes): Day: 2.32 Night: 1

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. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	-69	0.27
2	0	1
3	125	0.58

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	-69	0.27
2	0	1
3	125	0.58

Antenna Monitor: POTOMAC INSTRUMENTS AM-19 (204)

Sampling System Approved Under Section 73.68 of the Rules.

Monitoring Points:

Day Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
50	4.67	3.13
80	4.83	3.3
115	5.31	2.8

Special operating conditions or restrictions:

1 Ground System consists of 120 equally spaced buried copper wire radials about the base of each tower. Each radial 70.73 m in length except where shortened and bonded to transverse copper strap midway between towers or at property boundary.

Special operating conditions or restrictions:

2 Monitoring Points Description:

Monitor point 50° True North: 41° 56′ 57.5″ N, 89° 00′ 54.1″ W NAD 83. The measuring location is on the north side of the road across from a utility pole with the marking 08175. This point is 2.9 miles from the array. The field intensity measured at this point should not exceed 3.13 mV/m.

Monitor point 80° True North: 41° 55′ 48.9″ N, 89° 00′ 0.5″ W NAD 83. The measuring location is on the center of the road, in line with the towers to the west, and just south of a farm house and across from a utility pole with the marking 08125. This point is 3.0 miles from the array. The field intensity measured at this point should not exceed 3.30 mV/m.

Monitor point 115° True North: 41° 54′ 9.5″ N, 88° 59′ 59″ W NAD 83. The measuring location is east side of the road, across the road from a utility pole with the marking 08072. This point is 3.3 miles from the array. The field intensity measured at this point should not exceed 2.8 mV/m.

*** END OF AUTHORIZATION ***