



United States of America
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

Authorizing Official:

Official Mailing Address:

IHM LICENSES, LLC
 7136 S. YALE AVENUE
 SUITE 501
 TULSA OK 74136

Son Nguyen
 Supervisory Engineer
 Audio Division
 Media Bureau

Facility Id: 68906

Call Sign: WWRL

License File Number: BMML-20211119AAH

Grant Date: June 27, 2023

This license expires 3:00 a.m.
 local time, June 01, 2030.

This license modifies license no.: BML-20090922AFC

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. | 7:15 AM | 5:00 PM | Jul. | 4:30 AM | 7:30 PM |
| Feb. | 6:45 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. | 6:00 AM | 5:15 PM |
| May | 4:45 AM | 7:00 PM | Nov. | 6:45 AM | 4:45 PM |
| Jun. | 4:30 AM | 7:30 PM | Dec. | 7:15 AM | 4:30 PM |

Callsign: WWRL

License No.: BMML-20211119AAH

Name of Licensee: IHM LICENSES, LLC

Station Location: NEW YORK, NY

Frequency (kHz): 1600

Station Class: B

Antenna Coordinates:

Day

Latitude: N 40 Deg 47 Min 44 Sec

Longitude: W 74 Deg 03 Min 18 Sec

Night

Latitude: N 40 Deg 47 Min 44 Sec

Longitude: W 74 Deg 03 Min 18 Sec

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

Nominal Power (kW): Day: 25.0 Night: 5.0

Antenna Input Power (kW): Day: 26.32 Night: 5.4

Antenna Mode: Day: DA Night: DA

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

Current (amperes): Day: 22.95 Night: 10.39

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

| Tower No. | ASRN | Overall Height (m) |
|-----------|---------|--------------------|
| 1 | 1051681 | |
| 2 | 1051682 | |
| 3 | 1051683 | |
| 4 | 1051684 | |

Night:

| Tower No. | ASRN | Overall Height (m) |
|-----------|---------|--------------------|
| 1 | 1051681 | |
| 2 | 1051682 | |
| 3 | 1051683 | |
| 4 | 1051684 | |

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 2027 Night: 917.3

Standard RMS (mV/m/km):

Augmented RMS (mV/m/km): Day: 2130 Night: 967.1

Q Factor: Day: 61.05 Night: 28.43

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 | TL/S |
| 2 | 0.9300 | -27.300 | 188.0000 | 215.000 | 0 | TL/S |
| 3 | 1.6200 | 49.900 | 219.4000 | 239.000 | 0 | TL/S |
| 4 | 0.7500 | 49.100 | 90.0000 | 297.000 | 0 | TL/S |

* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Top-Loaded/Sectionalized Tower Parameters: (See 47 CFR 73.160)

| Tower No. | A | B | C | D |
|-----------|-------|-------|-----|-----|
| 1 | 180.4 | 34.60 | .00 | .00 |
| 2 | 180.4 | 34.60 | .00 | .00 |
| 3 | 180.4 | 34.60 | .00 | .00 |
| 4 | 180.4 | 34.60 | .00 | .00 |

Augmentation Parameters:

| Aug No. | Central Azimuth (Deg. T) | Span (Deg.) | Radiation at Central Azimuth (mV/m @ 1 km) |
|---------|--------------------------|-------------|--|
| 1 | 227.0 | 10.0 | 622.70 |
| 2 | 259.0 | 10.0 | 275.20 |

Theoretical Parameters:

Night Directional Antenna:

| Tower No. | Field Ratio | Phasing (Deg.) | Spacing (Deg.) | Orientation (Deg.) | Tower Ref Switch * | Height (Deg.) |
|-----------|-------------|----------------|----------------|--------------------|--------------------|---------------|
| 1 | 1.0520 | 4.000 | 188.0000 | 35.000 | 0 | TL/S |
| 2 | 1.0000 | 0.000 | 0.0000 | 0.000 | 0 | TL/S |
| 3 | 1.0300 | 96.000 | 90.0000 | 297.000 | 0 | TL/S |

Theoretical Parameters:

Night Directional Antenna:

| Tower No. | Field Ratio | Phasing (Deg.) | Spacing (Deg.) | Orientation (Deg.) | Tower Ref Switch * | Height (Deg.) |
|-----------|-------------|----------------|----------------|--------------------|--------------------|---------------|
| 4 | 1.0850 | 100.000 | 196.8000 | 8.100 | 0 | TL/S |

* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Top-Loaded/Sectionalized Tower Parameters: (See 47 CFR 73.160)

| Tower No. | A | B | C | D |
|-----------|-------|-------|-----|-----|
| 1 | 180.4 | 34.60 | .00 | .00 |
| 2 | 180.4 | 34.60 | .00 | .00 |
| 3 | 180.4 | 34.60 | .00 | .00 |
| 4 | 180.4 | 34.60 | .00 | .00 |

Augmentation Parameters:

| Aug No. | Central Azimuth (Deg. T) | Span (Deg.) | Radiation at Central Azimuth (mV/m @ 1 km) |
|---------|--------------------------|-------------|--|
| 1 | 13.0 | 34.0 | 86.90 |
| 2 | 13.0 | 10.0 | 107.80 |
| 3 | 14.0 | 10.0 | 238.70 |
| 4 | 37.0 | 14.0 | 233.40 |
| 5 | 46.0 | 18.0 | 204.40 |
| 6 | 55.0 | 14.0 | 133.60 |
| 7 | 175.0 | 10.0 | 833.50 |
| 8 | 203.0 | 12.0 | 83.70 |
| 9 | 209.0 | 12.0 | 93.30 |
| 10 | 215.0 | 12.0 | 94.90 |
| 11 | 221.5 | 13.0 | 88.50 |
| 12 | 227.0 | 10.0 | 78.89 |
| 13 | 240.0 | 24.0 | 125.50 |
| 14 | 252.0 | 24.0 | 143.20 |
| 15 | 252.5 | 10.0 | 220.80 |
| 16 | 264.0 | 24.0 | 120.70 |
| 17 | 276.0 | 24.0 | 86.90 |
| 18 | 288.0 | 24.0 | 127.10 |
| 19 | 298.0 | 10.0 | 223.90 |
| 20 | 316.0 | 32.0 | 93.30 |
| 21 | 318.0 | 10.0 | 147.60 |
| 22 | 346.0 | 12.0 | 270.40 |

Day Directional Operation:

| Twr. No. | Phase (Deg.) | Antenna Sample Current Ratio |
|----------|--------------|------------------------------|
| 1 | 38.1 | 0.653 |
| 2 | 0 | 1 |
| 3 | 105.3 | 1.134 |
| 4 | 112.4 | 0.184 |

Night Directional Operation:

| Twr. No. | Phase (Deg.) | Antenna Sample Current Ratio |
|----------|--------------|------------------------------|
| 1 | 7.8 | 0.954 |
| 2 | 0 | 1 |
| 3 | 125.4 | 0.693 |
| 4 | 129.3 | 0.581 |

Antenna Monitor: POTOMAC INSTRUMENTS AM 1901-4

Sampling System Approved Under Section 73.68 of the Rules.

Special operating conditions or restrictions:

- 1 Ground system consists of 120 equally spaced, buried, copper radials about the base of each tower, each 47 meters in length except where intersecting radials are shortened and bonded to a transverse copper strap midway between adjacent towers. Copper strap is also installed between the transmitter building and the tower interconnecting straps. There are twelve ground stakes installed and electrically bonded to the copper strap.
- 2 The permittee/licensee 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.

*** END OF AUTHORIZATION ***