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

Grant Date: October 29, 2020

This license expires 3:00 a.m. local time, June 01, 2022.

Facility Id: 48720

Call Sign: WSYR

License File Number: BZ-20200514AAO

This license covers Permit No.: BZ-19860520AG

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

Callsign: WSYR License No.: BZ-20200514AAO

Name of Licensee: IHM LICENSES, LLC

Station Location: SYRACUSE, NY

Frequency (kHz): 570

Station Class: B

Antenna Coordinates:

	Day					
Latitude:	N	42	Deg	59	Min	13 Sec
Longitude:	W	76	Deg	09	Min	09 Sec

	Night					
Latitude:	N	42	Deg	59	Min	13 Sec
Longitude:	W	76	Deg	09	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: 5.0 Night: 5.0

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

Antenna Mode: Day: DA Night: DA

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

Current (amperes): Day: 10.39 Night: 10.39

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1007086	
2	1007085	
3	1007087	

Night:

Tower No.	ASRN	Overall Height (m)
1	1007086	
2	1007085	
3	1007087	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 640.52 Night: 640.52

Standard RMS (mV/m/km):

Augmented RMS (mV/m/km): Day: 674.05 Night: 673.43

Q Factor: Day: Night:

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	69.0
2	0.7300	84.000	151.0000	195.000	0	69.0
3	0.4200	-24.000	151.0000	15.000	0	69.0

* 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	137.0	16.0	180.41
2	195.0	50.0	366.93
3	253.0	18.0	185.07

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	69.0
2	0.6100	82.400	151.0000	195.000	0	69.0
3	0.4900	-65.600	151.0000	15.000	0	69.0

* 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	136.0	20.0	57.94
2	155.0	38.0	108.63
3	155.0	10.0	136.79
4	195.0	60.0	177.03

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
5	225.0	58.0	108.63
6	254.0	21.0	59.55
7	285.0	10.0	700.48

Day Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	0	1
2	83.5	0.683
3	-43	0.403

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	0	1
2	81.5	0.635
3	-76.9	0.508

Antenna Monitor: POTOMAC AM1900

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)
136	4.22	39.2
195	9.44	23.4

Night Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
136	4.22	10
155	4.62	46.7
195	9.44	11.9

Special operating conditions or restrictions:

1 Ground system consists of 144 equally spaced, buried, copper radials 122 meters in length plus a 48 x 48 foot ground screen about the base of each tower. Radials are bonded at interesecting point. A buried 4 inch copper strap joins the ground system between towers.

Special operating conditions or restrictions:

2 Description of Directional Antenna System:
Mo. and Type of Elements: Three self-supporting, square cross sections, tapered sseries excited vertical radiators.

3 Licensee shall be responsible for satisfying all reasonable complaints of blanketing interference within the 1 V/m contour as required by Section 73.88 of the Commission's rules.

4 DESCRIPTION OF AND FIELD INTENSITY MEASURED AT MONITORING POINTS:

Direction of 136? True North. Point is located on the East side of CR173, Sentinel Heights Rd, 1.05 km North of Bull Hill Rd. Point is 30 meters of field road on the right. DGPS coordinates are N42° 57′ 34.1″ W76° 06′ 58.3″. The point is 4.22 km from the center of the WSYR array.

Direction of 155? True North. The point is located adjacent to the mailbox 5646 Bull Hill Rd. The DGPS coordinates are N42° 56′ 57.7″ W76° 07′ 42.2″. The point is 4.62 km from the center of the WSYR array.

Direction of 195° True North. The point is located at the ditch line on the North side of RT US20 at the intersection of the western most fork of Everingham Rd. The DGPS coordinates of the point are N 42° 54′17.6″ W76° 10′ 52.6″ The point is 9.44 km from the center of the WSYR array.

*** END OF AUTHORIZATION ***