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: September 09, 2021

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

Facility Id: 14371

Call Sign: WAEB

License File Number: BMML-20210419AAO

This license modifies nighttime authority of license no.: BL-19970910KC

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:

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

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

Callsign: WAEB License No.: BMML-20210419AAO

Name of Licensee: IHM LICENSES, LLC

Station Location: ALLENTOWN, PA

Frequency (kHz): 790

Station Class: B

Antenna Coordinates:

		Day				
Latitude:	N	40	Deg	39	Min	37 Sec
Longitude:	W	75	Deg	30	Min	50 Sec

		Night				
Latitude:	N	40	Deg	39	Min	37 Sec
Longitude:	W	75	Deg	30	Min	50 Sec

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

Nominal Power (kW): Day: 3.6 Night: 1.5

Antenna Input Power (kW): Day: 3.9 Night: 2.88

Antenna Mode: Day: DA Night: DA

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

Current (amperes): Day: 8.82 Night: 6.89

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1031111	
2	1031110	

Night:

Tower No.	ASRN	Overall Height (m)
1	1031111	
2	1031110	
3	1031109	
4	1031108	
5	1131107	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 586.92 Night: 397.6

Standard RMS (mV/m/km): Day: 616.59 Night: 419.24

Augmented RMS (mV/m/km):

Q Factor: Day: 18.97 Night: 36.5

Theoretical Parameters:

Day Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.4660	-76.700	0.0000	0.000	0	94.0
2	1.0000	0.000	95.0000	128.000	0	94.0

* Tower Reference Switch
0 = Spacing and orientation from reference tower
1 = Spacing and orientation from previous tower

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	1.3100	-65.700	380.0000	128.000	0	94.0
2	2.6520	128.100	285.0000	128.000	0	94.0
3	3.4550	-35.700	190.0000	128.000	0	94.0
4	2.2610	163.000	95.0000	128.000	0	94.0
5	1.0000	0.000	0.0000	0.000	0	94.0

* 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	0	1
2	71	0.54

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	-30.4	0.431
2	163.4	0.753
3	0	1
4	-164.8	0.607
5	28.8	0.313

Antenna Monitor: POTOMAC INSTRUMENTS 1901

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)
128	4.99	62.6
308	4.1	195.7

Special operating conditions or restrictions:

1 Ground System consists of 120 equally space, buried, copper radials at 3 degree intervals, 94.87m long. Intersecting radials shortened and bonded to transverse copper straps midway between towers.

2 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.

3 DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:
Daytime:
Direction of 128° True North. From the transmitter site, go right on Church Street for 0.25 miles onto Route 145 South. Continue for 2.05 miles and bear right at the Grape Street exit. Cross Route 145 and proceed east on Grape for 0.9 miles to Third Street, where a turn is made. Drive for 0.35 miles to Wood Street. Make a left turn and stop after 0.15 miles. This is the intersection with Pine Street. The point is located south of the intersection, 40 feet from the curb. This is point number 15 of the survey. The distance is 4.99 kilometers. The field intensity measured at this point should not exceed 62.6 mV/m . Day.
Direction of 308° True North. From the transmitter site, go right on Church Street for 0.20 miles until the traffic light with Route 145. Make a left turn and proceed north 1.8 miles where a left turn is made onto Route 329. Continue for 1.5 miles. Just past the Shell gasoline station, take a right turn at Hillside Road. Drive for 0.4 miles, where a left turn is made at Victoria Way. The point is located in the middle of the road in line with the driveway of the first house on the right. This is point 8 of the survey. The distance is 4.10 kilometers. The field intensity measured at this point should not exceed 195.7 mV/m. Day.

*** END OF AUTHORIZATION ***