



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: 14371

Call Sign: WAEB

License File Number: BL-19970910KC

Grant Date: March 18, 1998

This license expires 3:00 a.m.
local time, August 01, 2006.

This license covers Permit No.: 950911AB

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.	4:45 AM	7:30 PM
Feb.	7:00 AM	5:30 PM	Aug.	5:15 AM	7:00 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.	6:45 AM	4:45 PM
Jun.	4:30 AM	7:30 PM	Dec.	7:15 AM	4:30 PM

Callsign: WAEB

License No.: BL-19970910KC

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: 3.88 Night: 2.376

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	1.0000	0.000	0.0000	0.000	0	94.0
2	2.2610	163.000	95.0000	308.000	0	94.0
3	3.4550	-35.700	190.0000	308.000	0	94.0
4	2.6520	128.100	285.0000	308.000	0	94.0
5	1.3100	-65.700	380.0000	308.000	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	-38.5	0.311
2	157.9	0.685
3	0	1
4	-162.2	0.909
5	32	0.606

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

Night Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
0.5	3.17	6.7
69.5	2.12	13.9
186.5	4.06	7.48
255	3.35	12.3
280.5	3.22	35.7
335.6	2.78	42

*** END OF AUTHORIZATION ***