**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:

This license expires 3:00 a.m. local time, October 01, 2004.

Facility Id: 41994

Call Sign: WSAI

License File Number: BL-7974

This modifies the description of the 294.5 degree monitor point on authoriztion ( BS-940617) pursuant to applicant's request of 11/13/01. 5/7/2002

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. | 8:00 AM | 5:45 PM | Jul. | 5:30 AM | 8:00 PM |
| Feb. | 7:30 AM | 6:15 PM | Aug. | 5:45 AM | 7:30 PM |
| Mar. | 6:45 AM | 6:45 PM | Sep. | 6:15 AM | 6:45 PM |
| Apr. | 6:00 AM | 7:15 PM | Oct. | 6:45 AM | 6:00 PM |
| May | 5:30 AM | 7:45 PM | Nov. | 7:15 AM | 5:30 PM |
| Jun. | 5:15 AM | 8:00 PM | Dec. | 7:45 AM | 5:15 PM |

Jan. 5:15 AM 6:00 PM Dec. 7:45 AM 5:15 PM

Name of Licensee: IHM LICENSES, LLC

Station Location: CINCINNATI, OH

Frequency (kHz): 1360

Station Class: B

Antenna Coordinates:

| | Day | | | | | |
|---|---|---|---|---|---|---|
| Latitude: | N | 39 | Deg | 14 | Min | 51 Sec |
| Longitude: | W | 84 | Deg | 31 | Min | 52 Sec |

| | Night | | | | | |
|---|---|---|---|---|---|---|
| Latitude: | N | 39 | Deg | 14 | Min | 51 Sec |
| Longitude: | W | 84 | Deg | 31 | Min | 52 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: 5.0 Night: 5.4

Antenna Mode: Day: ND Night: DA

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

Current (amperes): Day: 11.6 Night: 10.4

Resistance (ohms): Day: 37 Night: 50

Non-Directional Antenna: Day

Radiator Height: 111.25 meters; 181.7 deg

Theoretical Efficiency: 383.02 mV/m/kw at 1km

Antenna Registration Number(s):

Day:

| Tower No. | ASRN | Overall Height (m) |
|---|---|---|
| 1 | 1044070 | |

Night:

| Tower No. | ASRN | Overall Height (m) |
|---|---|---|
| 1 | 1044069 | |
| 2 | 1044070 | |
| 3 | 1044071 | |

Callsign: WSAI License No.: BL-7974

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Night: 901.23

Standard RMS (mV/m/km):

Augmented RMS (mV/m/km): Night: 948.46

Q Factor: Night: 22.36

Theoretical Parameters:

Night Directional Antenna:

| Tower No. | Field Ratio | Phasing (Deg.) | Spacing (Deg.) | Orientation (Deg.) | Tower Ref Switch * | Height (Deg.) |
|---|---|---|---|---|---|---|
| 1 | 1.0000 | 119.000 | 0.0000 | 0.000 | 0 | 181.7 |
| 2 | 2.0000 | 0.000 | 314.6000 | 328.800 | 0 | 181.7 |
| 3 | 1.0000 | -105.000 | 629.2000 | 328.800 | 0 | 181.7 |

* 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 | 70.0 | 10.0 | 155.75 |
| 2 | 227.5 | 10.0 | 160.93 |
| 3 | 240.0 | 25.0 | 632.47 |

Night Directional Operation:

| Twr. No. | Phase (Deg.) | Antenna Monitor Sample Current Ratio |
|---|---|---|
| 1 | -89 | 0.468 |
| 2 | 0 | 1 |
| 3 | 91.6 | 0.55 |

Antenna Monitor: POTOMAC INSTRUMENTS AM-19(204)

Sampling System Approved Under Section 73.68 of the Rules.

Special operating conditions or restrictions:

1 DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of 70° True North. From the WCKY entrance road proceed north 0.43 mile on Daly Road to South Shore Drive, easterly 1.7 mile on South Shore Drive and Lakeridge to McKelvey Road, northerly 0.27 mile to monitoring point located on east edge of roadway, approximately 300 feet south of bridle trail and at a point located directly across from the south edge of the restroom entrance drive. Distance from the array 1.69 miles. The field intensity measured at this point should not exceed 30 mV/m.

Direction of 227.5° True North. From the WCKY entrance road proceed south 2.14 miles on Daly Road to Gailbraith Road, westerly 2.05 miles to entrance road at 2302 West Galbraith, north 0.05 mile to monitoring point located approximately 100 feet SW of Clovernook Chateau Apartment Building on a grassy area south of asphalt parking lot. Distance from the array 2.81 miles. The field intensity measured at this point should not exceed 21mV/m.

Direction of 294.5° True North. From the transmitter entrance road, proceed 0.43 miles north on Daly Road to Miles Road, northwest, west and south 1.3 miles to Hamilton Avenue, northwest 0.83 miles to Springdale Road, westerly 0.86 miles to Pippin Road, northerly 0.24 mile to Pippin lane. Turn right onto Pippin Lane. Proceed 0.09 miles to driveway of 10361 Pippin Lane. The monitor point is located at the intersection of the north side of the driveway of 10361 Pippin Lane and Pippin Lane. Distance from the array is 2.54 miles. The field intensity at this point should not exceed 9.1 mV/m.

Direction of 334.5° True North. From the WCKY entrance road proceed 0.43 mile north on Daly Road to Miles Road, northwest, west and south 1.3 miles to Hamilton Avenue, NW and north 3.05 miles to Reliance Drive, east, NE and north 0.2 mile to Rubicon Place, east 0.1 mile to monitor point located on the SE corner on Rubicon Place & Rodoan Court. Distance from the array is 3.32 miles. The filed intensity measured at this point should not exceed 15.0 mV/m.

Ground System:

Ground system consists of 100 radials about each tower, 91.44 m long. Radials are buried approximately 0.3 m, except portions about NW(#1) are extensions of ground plane over ravine.

Nighttime tower registration and operating parameters for towers #1, 2, & 3 refer to physical tower #1 (NW), #2(C) and #3(SE). The daytime tower is the physical #2 (C) tower.

*** END OF AUTHORIZATION ***