



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: 69569

Call Sign: WDIA

License File Number: BMML-20140318AHI

Grant Date: August 15, 2014

This license expires 3:00 a.m.
local time, August 01, 2020.

This license covers Permit No.: BZ-19910826AB

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

Callsign: WDIA

License No.: BMML-20140318AHI

Name of Licensee: IHM LICENSES, LLC

Station Location: MEMPHIS, TN

Frequency (kHz): 1070

Station Class: B

Antenna Coordinates:

Day

Latitude: N 35 Deg 16 Min 05 Sec

Longitude: W 90 Deg 01 Min 03 Sec

Night

Latitude: N 35 Deg 16 Min 05 Sec

Longitude: W 90 Deg 01 Min 03 Sec

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

Nominal Power (kW): Day: 50.0 Night: 5.0

Antenna Input Power (kW): Day: 52.7 Night: 5.4

Antenna Mode: Day: DA Night: DA

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

Current (amperes): Day: 32.45 Night: 10.39

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1051772	
2	1051773	
3	1051774	
4	1051777	

Night:

Tower No.	ASRN	Overall Height (m)
1	1051772	
2	1051773	
3	1051774	
4	1051775	
5	1051776	
6	1051777	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 2059.96 Night: 638.91

Standard RMS (mV/m/km):

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

Q Factor: Day: Night: 10.686044

Theoretical Parameters:

Day Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	1.0000	70.000	0.0000	0.000	0	90.1
2	1.0000	10.000	90.0000	190.200	0	90.1
3	0.6000	0.000	210.0000	270.200	1	90.1
4	0.6000	60.000	90.0000	10.200	1	90.1

* 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	121.0	10.0	1411.28
2	126.0	10.0	1420.57

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	1.0000	115.000	0.0000	0.000	0	90.1
2	1.0000	15.000	90.0000	190.200	0	90.1
3	1.9320	0.000	210.0000	270.200	1	90.1
4	1.0000	-15.000	210.0000	270.200	1	90.1
5	1.0000	85.000	90.0000	10.200	1	90.1
6	1.9320	100.000	210.0000	90.200	1	90.1

* 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	7.5	17.0	160.93

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
2	16.0	17.0	128.75
3	25.0	18.0	59.55
4	35.0	20.0	24.14
5	46.0	10.0	22.85
6	51.0	10.0	22.53
7	59.0	14.0	30.58
8	66.0	14.0	40.23
9	73.0	10.0	57.94
10	121.0	14.0	22.53
11	121.0	10.0	32.19
12	128.0	13.0	35.41
13	134.5	13.0	56.33
14	134.5	10.0	61.16
15	225.0	10.0	313.82
16	239.0	13.0	48.28
17	258.0	25.0	32.19
18	271.0	18.0	22.53
19	271.0	10.0	26.55
20	280.0	18.0	22.53
21	290.0	10.0	24.14
22	295.0	10.0	22.53
23	301.0	12.0	27.36
24	343.0	26.0	40.23
25	343.0	10.0	53.11
26	356.0	23.0	136.79

Day Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
1 55.8	1.029
2 0	1
3 -12.3	0.647
4	
5	
6 41.6	0.652

Night Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
1 109	0.519

Night Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
2 15	0.523
3 0	1
4 -15.3	0.553
5 77.9	0.553
6 94.3	1.026

Antenna Monitor: POTOMAC INSTRUMENTS AM-1901

Sampling System Approved Under Section 73.68 of the Rules.

Special operating conditions or restrictions:

- 1 The ground system consists of 120 - 61 meter buried copper radials equally spaced about each tower with intersecting radials from adjacent towers shortened and bonded to a common copper strap and with the center of the ground systems bonded together with copper strap.
- 2 The licensee shall perform the measurements described in Section 73.155 at least once within each 24-month period.

*** END OF AUTHORIZATION ***