



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: 59969

Call Sign: WDFN

License File Number: BL-19971120KA

Grant Date: April 27, 1998

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

This license covers Permit No.: 971103AB

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	5:30 PM	Jul.	5:15 AM	8:15 PM
Feb.	7:30 AM	6:00 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	5:15 AM	7:45 PM	Nov.	7:15 AM	5:15 PM
Jun.	5:00 AM	8:15 PM	Dec.	8:00 AM	5:00 PM

Callsign: WDFN

License No.: BL-19971120KA

Name of Licensee: IHM LICENSES, LLC

Station Location: DETROIT, MI

Frequency (kHz): 1130

Station Class: B

Antenna Coordinates:

Night

Latitude: N 42 Deg 06 Min 39 Sec

Longitude: W 83 Deg 11 Min 52 Sec

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

Nominal Power (kW): Night: 10.0

Antenna Input Power (kW): Night:

Antenna Mode: Night: DA

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

Current (amperes): Night:

Resistance (ohms): Night:

Antenna Registration Number(s):

Night:

Tower No.	ASRN
1	None
2	None
3	None
4	None
5	None
6	None
7	None
8	None
9	None

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Night: 930.36

Standard RMS (mV/m/km):

Augmented RMS (mV/m/km): Night: 1033.11

Q Factor: Night:

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	1.0000	99.100	0.0000	0.000	0	115.0
2	1.9850	0.000	90.0000	1.500	0	115.0
3	1.0000	-99.100	90.0000	1.500	1	115.0
4	1.9620	99.100	203.5000	271.500	0	115.0
5	3.8950	0.000	90.0000	1.500	1	115.0
6	1.9620	-99.100	90.0000	1.500	1	115.0
7	1.0000	99.100	407.0000	271.500	0	115.0
8	1.9850	0.000	90.0000	1.500	1	115.0
9	1.0000	-99.100	90.0000	1.500	1	115.0

* 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	1.5	15.0	3130.08
2	9.0	15.0	2960.79
3	25.0	47.0	1885.00
4	51.5	20.0	100.42
5	61.5	20.0	56.33
6	71.5	20.0	20.92
7	81.5	20.0	37.01
8	91.5	20.0	56.33
9	101.5	20.0	43.77
10	111.5	20.0	31.22
11	121.5	20.0	28.97
12	173.5	33.0	111.00
13	190.0	16.0	48.28
14	198.0	16.0	48.28
15	211.0	26.0	48.28
16	224.5	25.0	100.00

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
17	237.0	25.0	48.28
18	250.0	10.0	107.90
19	255.0	10.0	80.47
20	271.5	14.0	51.02
21	278.5	10.0	54.40
22	281.5	10.0	70.00
23	286.5	10.0	48.28
24	291.5	10.0	48.28
25	300.0	17.0	56.33
26	309.0	18.0	176.22
27	330.0	40.0	1067.54
28	350.0	23.0	2742.32

Special operating conditions or restrictions:

- 1 Permissible nighttime base current ratio deviation shall not exceed $\pm 5\%$.

Permissible nighttime antenna monitor sample current ratio deviation shall not exceed $\pm 0.5\%$.

Permissible nighttime antenna monitor phase deviation shall not exceed $\pm 1.0^\circ$.

*** END OF AUTHORIZATION ***