



Kevin
Tim

United States of America
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

Authorizing Official:

Official Mailing Address:

MIDWEST COMMUNICATIONS, INC.
904 GRAND AVENUE
WAUSAU WI 54403

Son Nguyen
Son Nguyen
Supervisory Engineer
Audio Division
Media Bureau

Facility Id: 9967

Call Sign: WHBL

License File Number: BZ-20060421ACN

Grant Date: **DEC 7 2006**
This license expires 3:00 a.m.
local time, December 01, 2012.

DM

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

Callsign: WHBL

License No.: BZ-20060421ACN

Name of Licensee: MIDWEST COMMUNICATIONS, INC.

Station Location: SHEBOYGAN, WI

Frequency (kHz): 1330

Station Class: B

Antenna Coordinates:

Day

Latitude: N 43 Deg 43 Min 14 Sec

Longitude: W 87 Deg 44 Min 04 Sec

Night

Latitude: N 43 Deg 43 Min 14 Sec

Longitude: W 87 Deg 44 Min 04 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: 1.0

Antenna Input Power (kW): Day: 5.4 Night: 1.08

Antenna Mode: Day: DA Night: DA

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

Current (amperes): Day: 10.4 Night: 4.65

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1034761	
2	1034762	

Night:

Tower No.	ASRN	Overall Height (m)
1	1034761	
2	1034762	
3	1034763	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 690.41 Night: 329.92

Standard RMS (mV/m/km):

Augmented RMS (mV/m/km): Day: 759.86 Night: 346.64

Q Factor: Day: Night:

Theoretical Parameters:

Day Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.6500	-129.000	0.0000	0.000	0	138.8
2	0.3500	129.000	90.0000	13.000	0	138.8

* 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	13.0	46.0	1094.35
2	32.5	20.0	1060.24
3	50.0	40.0	1046.07
4	70.0	40.0	968.83
5	90.0	40.0	836.86
6	128.0	64.0	482.80
7	160.0	64.0	337.96
8	193.0	66.0	337.96
9	228.0	60.0	337.96
10	258.0	48.0	482.80
11	282.0	45.0	708.11
12	304.5	45.0	896.40
13	327.0	45.0	1005.84
14	350.0	46.0	1062.17

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.2350	-217.700	0.0000	0.000	0	138.8
2	0.4110	20.440	90.0000	13.000	0	138.8

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
3	0.2420	217.700	180.0000	13.000	0	138.8

* 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	13.0	46.0	675.12
2	50.0	40.0	550.40
3	70.0	40.0	373.37
4	90.0	28.0	189.90
5	104.0	28.0	136.79
6	128.0	48.0	168.98
7	160.0	64.0	144.84
8	193.0	66.0	173.81
9	228.0	60.0	144.84
10	258.0	48.0	168.98
11	282.0	45.0	136.79
12	304.5	45.0	268.76
13	327.0	45.0	482.80
14	350.0	46.0	628.95

Day Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	-140	1
2	0	1

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	-117	0.3
2	0	1
3	58	0.51

Antenna Monitor: POTOMAC INSTRUMENTS AM-19(204)

Sampling System Approved Under Section 73.68(b) of the Rules.

Monitoring Points:

Day Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
193	3.73	100
228	6.08	47.4

Night Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
128	1.45	128
193	3.73	44.4
228	6.08	24.2
282	5.07	24.8

*** END OF AUTHORIZATION ***