



United States of America
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

Fac ID# WJMN2

EN6

Official Mailing Address:

MORTENSON BROADCASTING COMPANY
 3270 BLAZER PKWY
 SUITE 101
 LEXINGTON KY 40509

Authorizing Official:

[Signature]
 Son Nguyen
 Supervisory Engineer
 Audio Services Division
 Mass Media Bureau

Facility Id: 18517

Grant Date **SEP 6 2001**

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

Call Sign: WJMN

License File Number: BZ-19961220AB

This re-issues licensed authorization granted on 3/21/1997 to add tower registration numbers. (JBS 9/6/2001)

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: Daytime

Callsign: WWNL

License No.: BZ-19961220AB

Average hours of sunrise and sunset:
Local Standard Time (Non-Advanced)

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

Name of licensee: MORTENSON BROADCASTING COMPANY

Station Location: PITTSBURGH, PA

Frequency (kHz): 1080

Station Class: D

Antenna Coordinates:

Day

Latitude: N 40 Deg 36 Min 17 Sec

Longitude: W 79 Deg 57 Min 37 Sec

Critical

Latitude: N 40 Deg 36 Min 17 Sec

Longitude: W 79 Deg 57 Min 37 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

Critical: 25.0

Antenna Input Power (kW): Day: 52.6

Critical: 26.3

Antenna Mode:

Day: DA

Critical: DA

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

Current (amperes): Day: 32.45

Critical: 22.95

Resistance (ohms): Day: 50

Critical: 50

Antenna Registration Number(s):

Call sign: WVNLT

License No.: BZ-19961220AB

Day:

Tower No.	ASRN
1	1029588
2	1029590
3	1029589
4	1029591

Critical:

Tower No.	ASRN
1	1029588
2	1029590
3	1029589
4	1029591

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/Km) : Day: 2349.64 Critical: 1660.84

Standard RMS (mV/m/Km) :

Augmented RMS (mV/m/Km) : Day: 2474.6 Critical: 1749.4

Q Factor: Day: 94.749 Critical: 66.973

Theoretical Parameters:

Day Directional Antenna:

Tower No.	Field Ratio Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Height (Deg.)	Switch *
1	0.6300	150.000	0.0000	0.000	0
2	1.0000	0.000	100.0000	175.000	0
3	0.8200	-146.000	200.0000	175.000	0
4	0.3000	67.000	300.0000	175.000	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	9.0	28.0	643.74
2	23.0	28.0	547.18
3	46.0	46.0	643.74
4	70.0	28.0	482.80
5	84.0	26.0	531.08
6	97.0	16.0	434.52
7	253.0	16.0	434.52
8	266.0	26.0	523.04
9	280.0	28.0	482.80
10	304.0	46.0	643.74
11	327.0	28.0	547.18
12	341.0	28.0	637.30
13	355.0	28.0	724.20

Theoretical Parameters:

Critical Directional Antenna:

Tower No.	Field Ratio Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Height (Deg.)	Switch *
1	0.6300	150.000	0.0000	0.000	0
2	1.0000	0.000	100.0000	175.000	0
3	0.8200	-146.000	200.0000	175.000	0

Theoretical Parameters:

Critical Directional Antenna:

Tower No. Tower Field Ratio Spacing (Deg.) Orientation (Deg.) Tower Ref Height (Deg.) Switch * (Deg.)

4 0.3000 67.000 300.0000 175.000 0 111.0

* Tower Reference Switch1"

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	9.0	28.0	455.44
2	23.0	28.0	386.24
3	46.0	46.0	455.44
4	70.0	28.0	341.18
5	84.0	26.0	370.15
6	97.0	26.0	305.78
7	245.0	10.0	450.62
8	253.0	16.0	289.68
9	266.0	26.0	370.15
10	280.0	28.0	341.18
11	304.0	46.0	452.23
12	327.0	28.0	386.24
13	341.0	28.0	450.62
14	355.0	28.0	513.38

Day Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio	Antenna Base Current Ratio
1	150 0.58	0.545
2	0 1	1
3	-146 0.86	0.838
4	66 0.29	0.276

Critical Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio	Antenna Base Current Ratio
1	150 0.56	0.543
2	0 1	1
3	-146 0.85	0.842
4	66 0.27	0.275

Antenna Monitor: Potomac Instruments AM-19 (204) S/N 154

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

Monitoring Points:

Special operating conditions or restrictions:

1 MONITOR POINT DESCRIPTIONS

23° - From WWNL site, proceed W on Lah Rd 0.23 mi to West Hardies Rd. Turn right and proceed N 0.42 mi to Gibson Rd. Continue N 1.43 mi on Gibson to SR 910. Turn right and proceed E 0.92 mi to Ewalt Rd. Continue E onto Ewalt, then south and then E for total of 0.47 mi to Molnar Dr. Turn right and proceed 1.7 mi into entrance to Gouverneur Hance School. Point located 40 ft from NW corner of school building in playground area. Point located 2.83 km from site, max 223.6 mV/m DAYTIME.

70° - From WWNL site, proceed W on Lah Rd 0.23 mi to West Hardies Rd. Turn right and proceed N 0.42 mi to Gibson Rd. Continue N 1.43 mi on Gibson to SR 910. Turn right and proceed E 3.8 mi to Middle road Extension. Turn left and proceed 0.08 mi to point. Point on E edge of road. Point located 4.96 km from site, max 31.8 mV/m DAYTIME.

97° - From WWNL site, proceed W on Lah Rd 0.23 mi to West Hardies Rd. Turn left and proceed S 0.63 mi to Wildwood Rd. Turn left and proceed E 2.35 mi to Middle Rd. Turn left and proceed N 0.6 mi to Cedar Ridge Rd. Turn right and proceed E 2.1 mi to SR 910. Turn right and proceed 0.25 mi to entrance of West Deer Township Senior Citizens Center (WDTSCC).. Point is in center of parking lot of WDTSCC 100 ft from W edge of SR 910. Point located 6.02 km from site, max 49.9 mV/m DAYTIME.

253° - From WWNL site, proceed W on Lah Rd 0.23 mi to West Hardies Rd. Turn left and proceed S 0.63 mi to Wildwood Rd. Turn right and proceed W 1.65 mi to Babcock Rd, where Wildwood becomes Ingomar Rd. Continue W 1.4 miles on Ingomar to Grubbs Rd. Turn right and proceed NW 0.08 mi to entrance to Devlin Park parking area. Point is 75 ft W of Grubbs Rd on entrance road to parking area. Point located 5.04 km from site, max 48 mV/m DAYTIME.

280° - From WWNL site, proceed W on Lah Rd 0.23 mi to West Hardies Rd. Turn left and proceed S 0.63 mi to Wildwood Rd. Turn right and proceed W 1.65 mi to Babcock Rd. Turn right and proceed N 0.25 mi to Pearce Mill Road. Turn left and proceed NW 1.64 mi to point. Point 65 ft N of Pearce Mill Rd and 40 ft E of the Ambridge picnic shelter near large oak tree. Point located 4.97 km from site, max 35.6 mV/m DAYTIME.

327° - From WWNL site, proceed W on Lah Rd 0.23 mi to West Hardies Rd. Turn right and proceed N 0.42 mi to Gibson Rd. Continue N 1.43 mi on Gibson to SR 910. Turn left and proceed W 0.91 mi to North Montour Rd. Turn right and proceed N 0.3 mi to point. Point on E edge of North Montour Rd at center of small clearing. Point located 3.92 km from site, max 78.8 mV/m DAYTIME.

355° - From WWNL site, proceed W on Lah Rd 0.23 mi to West Hardies Rd. Turn right and proceed N 0.42 mi to Gibson Rd. Continue N 1.43 mi on Gibson to SR 910. Turn right and proceed E 0.17 mi to Dickey Rd. Turn left and proceed NE 0.3 mi to point. Point on E edge of Dickey Rd at driveway to #3836. Point located 3.31 km from site, max 211.2 mV/m DAYTIME.

*** FMTD OF AUTHORITY ***