ENGINEERING C

United States of America

FEDERAL COMMUNICATIONS COMMISSION

AM BROADCAST STATION LICENSE

Authorizing Official:

Official Mailing Address:

JOURNAL BROADCAST CORPORATION
3355 S. VALLEY VIEW BLVD.
LAS VEGAS NV 89102

Son Nguyen
Supervisory Engineer
Audio Division
Media Bureau

Grant Date:

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

Facility Id: 74096

Call Sign: WTMJ

License File Number: BL-19950222AD

This license is reissued to correct the 239 and 135.5 degree descriptions, the antenna input power and common point current, change licensee and add tower registrations(Misc20021011ACC)12/23/02

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	4:45 PM	Jul.	4:30 AM	7:30 PM
Feb.	6:45 AM	5:30 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	7:00 PM	Nov.	6:45 AM	4:30 PM
Jun.	4:15 AM	7:30 PM	Dec.	7:15 AM	4:15 PM

Name of Licensee: JOURNAL BROADCAST CORPORATION

Station Location: MILWAUKEE, WI

Frequency (kHz): 620

Station Class: B

Antenna Coordinates:

		Day				
Latitude:	N	42	Deg	42	Min	28 Sec
Longitude:	W	88	Deg	03	Min	57 Sec

		Night				
Latitude:	N	42	Deg	42	Min	28 Sec
Longitude:	W	88	Deg	03	Min	57 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: 10.0

Antenna Input Power (kW): Day: 52.5 Night: 10.5

Antenna Mode: Day: DA Night: DA

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

Current (amperes): Day: 32.5 Night: 14.5

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

Tower No.	ASRN
1	1034187
2	1034188
3	1034190
4	1034191

Night:

Tower No.	ASRN
1	1034186
2	1034187
3	1034188
4	1034189
5	1034190
6	1034191

Callsign: WTMJ License No.: BL-19950222AD

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 2035.16 Night: 921.63

Standard RMS (mV/m/km): Day: 2138.2

Augmented RMS (mV/m/km): Night: 973.13

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	1.0000	0.000	0.0000	0.000	0	90.0
2	0.5700	0.000	183.0000	91.200	0	90.0
3	0.8000	91.400	90.0000	175.000	0	90.0
4	0.4600	91.400	212.5000	116.100	0	90.0

* Tower Reference Switch
0 = Spacing and orientation from reference tower
1 = Spacing and orientation from previous tower

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	1.0000	0.000	0.0000	0.000	0	74.7
2	1.5000	17.800	183.0000	91.200	0	90.0
3	0.9600	-8.900	366.0000	91.200	0	90.0
4	1.2300	100.900	90.0000	175.000	0	70.6
5	1.8500	118.700	212.5000	116.100	0	90.0
6	1.1800	92.000	386.2000	104.600	0	90.0

* 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	25.0	20.0	1800.00

Day Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
2	0	0.67
3	0	1
5	82	0.58

Day Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
6	85	0.88

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	-9	0.95
2	0	1
3	-19	0.59
4	88	1.15
5	96	1.11
6	79	0.79

Antenna Monitor: POTOMAC INSTRUMENTS 1901

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)
150	3.46	108
180	4.22	91.1
192.5	4.32	150.5
239	4.15	169.1

Night Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
51.5	4	107.7
90	4.78	82.3
135.5	3.05	27.3
222	3.08	25.3
270	3.7	125.2
315	3.12	174.4

Special operating conditions or restrictions:

1 The permittee/licensee must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

Special operating conditions or restrictions:

2 DESCRIPTION OF MONITORING POINTS:

Direction of 51.5 degrees True North. From the WTMJ transmitter building, proceed out the WTMJ driveway to Church Road. Turn right and proceed east 0.55 miles to State Route 45. Turn left and proceed north 1.00 miles to Plan Road (County Road A). Turn right and proceed east 1.25 miles to 63rd Drive. Turn left and proceed north 0.15 miles to the point. The point is located on the east edge of the pavement and lies 4.00 kilometers from the antenna.

Direction of 90 degrees True North. From the WTMJ transmitter building, proceed out the WTMJ driveway to Church Road. Turn right and proceed east 0.55 miles to State Route 45. Turn right and proceed south 0.60 miles to Spring Street (County Road C). Turn left and proceed east 2.28 miles to 59th Drive. Turn right and proceed south 0.2 miles to the point. The point is located on the west edge of the pavement and lies 4.78 kilometers from the antenna.

Direction of 135.5 degrees True North. From the WTMJ transmitter building, proceed out the WTMJ driveway to Church Road. Turn right and proceed east 0.55 miles to State Route 45. Turn right and proceed south 1.77 miles to Mill Street. Turn left and proceed east 0.30 miles to Bluebird Lane. Turn left and proceed north 0.05 miles to the continuation of Mill Street. Turn right and proceed east 0.22 miles to the point. The point is located on the north side of the pavement, directly across from the driveway to 190 Mill Street and lies 3.05 kilometers from the antenna.

3 Direction of 150 degrees True North. From the WTMJ transmitter building, proceed out the WTMJ driveway to Church Road. Turn right and proceed east 0.55 miles to State Route 45. Turn right and proceed south 2.20 miles to State Route 11. Turn left and proceed east 0.35 miles to the point. The point is located on the south side of the pavement directly across from house #510 and lies 3.46 kilometers from the antenna.

Direction of 180 degrees True North. From the WTMJ transmitter building, proceed out the WTMJ driveway to Church Road. Turn right and proceed east 0.55 miles to State Route 45. Turn right and proceed south 3.00 miles to County Line Road. Turn right and proceed west 0.72 miles to the point. The point is located on the south side of the pavement and lies 4.22 kilometers from the antenna.

Direction of 222 degrees True North. From the WTMJ transmitter building, proceed out the WTMJ driveway to Church Road. Turn left and proceed west 1.45 miles to Britton Road. Turn left and proceed south 1.79 miles to the point. The point is located on the west edge of the pavement in front of 3840 Britton Road and lies 3.08 kilometers from the antenna.

Special operating conditions or restrictions:

4 Direction of 239 degrees True North. The point is located at the east edge of the parking lot for the Amoco station located on the northeast corner of State Route 11 and State Route 75, directly in line with the light pole located in the center of this parking lot, and lies 4.15 kilometers from the antenna.

Direction of 270 degrees True North. From the WTMJ transmitter building, proceed out the WTMJ driveway to Church Road. Turn left and proceed west 2.45 mile to State Route 75. Turn left and proceed south 0.35 miles to the point. The point is located on the west edge of the pavement and lies 3.7 kilometers from the antenna.

Direction of 315 degrees True North. From the WTMJ transmitter building, proceed out the WTMJ driveway to Church Road. Turn left and proceed west 1.45 miles to Britton Road. Turn right and proceed north 1.00 miles to Plank Road (County Road A). Turn left and proceed west 0.08 miles to the point. The point is located on the north edge of the pavement and lies 3.12 kilometers from the antenna.

5 Direction of 192.5 degrees True North. From the WTMJ transmitter building, proceed out the WTMJ driveway to Church Road. Turn right and proceed east 0.55 miles to State Route 45. Turn right and proceed south 3.00 miles to County Line Road. Turn right and proceed west 1.30 miles to the point. The point is located on the south edge of the pavement and lies 4.32 kilometers from the antenna.

Ground System Description:

The ground system consists of 120 equally spaced, buried copper radials about the base of each tower extending upto 120 m except where terminated by property boundaries or where intersection radials are shortened and bonded, plus a 7.3 m by 7.3 m expanded copper mesh screen will be installed at the base of each tower.

*** END OF AUTHORIZATION ***