FCC 352
May 1984

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

File No.: BL-840920AH

Call Sign: ~~WLZZ~~ WMCS 63597

STANDARD BROADCAST STATION LICENSE

Subject to the provisions of the Communications Act of 1934, subsequent Acts, and Treaties, and Commission Rules made thereunder, and further subject to conditions set forth in this license, 1/ the LICENSEE

Malrite of Wisconsin, Inc.

is hereby authorized to use and operate the radio transmitting apparatus hereinafter described for the purpose of broadcasting for the term ending 3 a.m. Local Time Dec. 1, 1989

The licensee shall use and operate said apparatus only in accordance with the following terms:

1. On a frequency of kHz.
2. With nominal power of 5000 watts nighttime and 5000 watts daytime,
   with antenna input power of 4362 watts directional [Common point current 9.34 amperes
   antenna nighttime ..... [Common point resistance 50 ohms,
   and antenna input power of 3750 watts directional [Common point current 8.66 amperes
   antenna daytime ..... [Common point resistance 50 ohms
3. Hours of operation:

AVERAGE HOURS OF SUNRISE AND SUNSET PROVIDED WITH PREVIOUS AUTHORIZATION.

4. Station location: Greenfield, Wisconsin
5. Main studio location: Same as transmitter location
   (Listed only if not at transmitter site or not within boundaries of principal community)
6. Remote control point: 520 W. Capital Drive, Wilwaukee, WI
7. Transmitter location:
   5732 W. Rawson, Franklin
   Franklin, Wisconsin
   North Latitude: 42° 55' 11"
   West Longitude: 87° 59' 17"
8. Obstruction marking specifications in accordance with the following paragraphs of FCC Form 715: None required.
9. Transmitter(s): Type accepted
10. Conditions: --

The Commission reserves the right during said license period of terminating this license or making effective any changes or modification of this license which may be necessary to comply with any decision of the Commission rendered as a result of any hearing held under the rules of the Commission prior to the commencement of this license period or any decision rendered as a result of any such hearing which has been designated but not held, prior to the commencement of this license period.

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 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.

1/ This license consists of this page and pages 2,3,4

Dated: NOV 15 1984 edr

FEDERAL COMMUNICATIONS COMMISSION

NOV 16 1984

FCC Form 353-A
June 1980

File NO.: BL840920AH Call Sign: WLZZ Date:

DA-2

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

No. and Type of Elements: Four (4) guyed, series-excited, steel radiators of uniform cross-section. Theo. RMS: 629.7 mV/m at 1 km (day and night) Standard RMS: 662 mV/m at 1 km(day and night).

Height above Insulators: 190.6' (90°)

Overall Height: 194'

Spacing and Orientation: 90° (190.6') between towers; line of towers bearing 6.5° true.

Non-Directional Antenna: None used.

Ground System consists of 120 equally spaced, buried, copper radials 191' in length, plus 120-50' radials interspersed about base of each tower. Radials are shortened and bonded to transverse copper straps midway between adjacent elements.

2. THEORETICAL SPECIFICATIONS

	Tower	S(#1)	SC(#2)	NC(#3)	N(#4)
Phasing:	Night	0°	217°	67°	280°
	Day	0°	225°	83°	290°
Field Ratio:	Night	1.0	2.45	2.5	1.1
	Day	1.0	2.5	1.75	0.9

3. OPERATING SPECIFICATIONS

Phase Indication*:	Night	145.5°	0°	-149.5°	58.8°
	Day	128.8°	0°	-135°	65.5°
Antenna Base Current Ratio:	Night	0.404	1.00	1.009	0.483
	Day	0.393	1.00	0.904	0.466
Antenna Monitor Sample Current Ratio:	Night	0.375	1.00	1.00	0.460
	Day	0.360	1.00	0.890	0.450

*** As indicated by** Potomac Instruments AM-19(204) antenna monitor.

EXEMPTIONS AS LISTED IN SECTION 73.68(b) OF THE RULES WILL APPLY DURING PROPER OPERATION OF APPROVED SAMPLING SYSTEM.

Field measuring equipment shall be available at all times and the field intensity at each of the monitoring points shall be measured at least once every seven days and an appropriate record kept of all measurements so made.

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of 6.5° true North. From the transmitter access road proceed east on Rawson Ave., .43 miles to 51st St. Turn left (N) on 51st St. and proceed 2.4 miles to Loomis Road. Turn right (NE) on Loomis Road and proceed 0.75 miles to Layton Ave. Turn left (W) on Layton Ave. and proceed .62 miles to monitor point. Monitor point is on the south side of Layton Ave. directly opposite the driveway of the Greenfield Fire Station. This point is #20 on the proof and is 2.72 miles from the array. The field intensity measured at this point should not exceed 255 mv/m Daytime.

Direction of 84.2° true North. From the transmitter access road proceed 1.94 miles east on Rawson Ave., to 27th St. Turn left (N) on 27th St. and proceed .95 miles to College Ave. Turn right (E) on College Ave and proceed .5 miles to 20th St. Turn right (S) on 20th St. and proceed .45 miles to monitor point. Monitor point is on 20th St. on median strip, north of Wood St., just south of 6686 So. 20th St. This point is #22 on the proof and is 2.43 miles from the array. The field intensity measured at this point should not exceed 15.2 mV/m, nighttime

Direction of 85° true North. From the transmitter access road proceed 1.94 miles east on Rawson Ave., to 27th St. Turn left (N) on 27th St. and proceed .95 miles to College Ave. Turn right (E) on College Ave. and proceed .5 miles to 20th St. Turn right (S) on 20th St. and proceed .5 miles to monitor point. Monitor point is on 20th St. south of Wood St. at curb, on the grass on west side of 20th St., in front of 6710 So. 20th St. This point is #22 on the proof and is 2.43 miles from the array. The field intensity measured at this point should not exceed 59 mv/m Daytime.

Direction of 127.9° true North. From the transmitter access road proceed east on Rawson Ave. to 27th St. Turn right (south) on 27th Street and proceed 1.21 miles to the monitor point. Monitor point is on the median strip of S. 27th Street across from the driveway of the Villa Vista Motel. This point is #17 on the proof and is 2.41 miles from the array. The field strength measured at this point should not exceed 11.6 mV/m, nighttime.

Direction of 148.9° true North. From the transmitter access road, proceed 1.94 miles east on Rawson Ave. to 27th St. Turn right (S) on 27th St. and proceed 2.4 miles to Southland Ave. Turn right (W) on Southland and proceed .3 miles to the monitor point. Monitor point is on Southland Ave. across the road from 3103. This point is #24 on the proof and is 3.18 miles from the array. The field intensity measured at this point should not exceed 10.5 mV/m, nighttime.

Direction of 186.5° true North. From the transmitter access road proceed east on Rawson Ave., .43 miles to 51st St. Turn right (S) on 51st St. and proceed 3.0 miles to Ryan Road. Turn right (W) on Ryan Road and proceed .75 miles to the monitor point. Monitor point is on the south side of Ryan Road, .25 miles west of 60th St., 300 feet west of "Root River" sign. This point is #21 on the proof and is 3.30 miles from the array. The field intensity measured at this point should not exceed 12.2 mv/m Daytime.

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS: (CONT'D)

Direction of 224.1° true North. From the transmitter access road proceed west on Rawson Ave., 1.4 miles to the access ramp for Loomis Road-South. Turn left on access ramp and proceed 2.2 miles south-west on Loomis to intersection with Highway 100. Take Highway 100 .34 miles SE to monitor point. Monitor point is on Highway 100, south of Loomis Road on east side of highway, opposite 9523. This point is #17 on the proof and is 3.35 miles from the array. The field intensity measured at this point should not exceed 7.6 mV/m, nighttime.

Direction of 245.1° true North. From transmitter access road proceed west on Rawson Ave., 3.0 miles to Highway 100-South. Proceed Se on Highway 100, .8 miles to Church St. Turn right (W) on Church St. and proceed 0.3 miles to Chapel Hill Drive. Turn left (S) on Chapel Hill Dr. and proceed .32 miles to Chapel Hill Ct., So. Turn right (W) on Chapel Hill Ct. So. and proceed to monitor point. Monitor point is on Chapel Hill Ct., So. at curb line of driveway in front of 7965. This point is #15 on the proof and is 3.29 miles from the array. The field intensity measured at this point should not exceed 6.6 mV/m, nighttime.

Direction of 288.8° true North. From the transmitter access road proceed west on Rawson Ave., 2.1 miles to 92nd St. Turn right (N) on 92nd and proceed 1.0 miles to the intersection of 92nd St. and Root River Parkway. Turn left (W) on Root River Parkway and proceed to the monitor point. Monitor point is on Root River Parkway, 100 feet east of Whitnall Park Road, on the grass median strip between College Ave. and Root River Parkway. This point is #17 on the proof and is 2.22 miles from the array. The field intensity measured at this point should not exceed 19.6 mV/m, nighttime.

Direction of 290° true North. From the transmitter access road proceed west on Rawson Ave., 2.1 miles to 92nd St. Turn right (N) on 92nd St. and proceed 1.0 miles to the intersection of Root River Parkway and 92nd St. Turn left (W) on Root River Parkway and proceed to the intersection with Whitnall Park Road and College Ave. Turn right (N) on Whitnall Park Road and proceed .25 miles to the monitor point. Monitor point is on Whitnall Park Road, 200 feet west of the 2nd bridge from College Ave. on the south side of the roa d on the grass. This point is #20 on the proof and is 2.43 miles from the array. The field intensity measured at this point should not exceed 54 mv/m Daytime.