

UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION  
AM BROADCAST STATION LICENSE

File No. : **BZ-910916AA**  
FAC ID : **73656**  
Call Sign : **KSUM**

LICENSEE:

**Woodward Broadcasting, Inc.**

1. Community of License .....: **Fairmont, MN**  
2. Transmitter location .....: **1317 West Lair Rd.  
Fairmont, MN.**  
North latitude .....: **43° 37' 45"**  
West longitude .....: **94° 29' 00"**

3. Transmitter(s): Type Accepted. (See Sections 73.1660, 73.1685 and 73.1670 of the Commission's rules)

4. Main Studio location: (See Section 73.1125)

**1317 West Lair Rd.  
Fairmont, MN.**

5. Remote control location:

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6. Antenna and ground system: **Attached**

7. Obstruction marking and lighting specifications - FCC Form 715, paragraphs: **Center tower #1) 1, 3, 12 & 21;  
North tower #2) 1, 3, 12, 21;  
South tower #3) 1 only.**

8. Frequency .....: **1370** kHz

9. Nominal power (kW) .....: **1.0** Day **1.0** Night

Antenna input power (kW):

**1.08** Day

Non-directional antenna:

Directional antenna : current **4.65** amperes; resistance **50** ohms.

**1.08** Night

Non-directional antenna:

Directional antenna : current **4.65** amperes; resistance **50** ohms.

10. Hours of operation: Specified in **BR-820628AI**

11. Conditions .....

Subject to the provisions of the Communications Act of 1934, as amended, subsequent Acts, Treaties, and Commission rules made thereunder, and further subject to conditions set forth in this license,<sup>1</sup> the LICENSEE is hereby authorized to use and operate the radio transmitting apparatus herein described for the purpose of broadcasting for the term ending 3 AM. Local Time

**April 1, 1997**

The Commission reserves the right during said license period of terminating this license or making effective any change, 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.  
The license is issued on the licensee's representation that the statements contained in the 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, as amended. 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, as amended.



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1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

No. and Type of Elements: Three (3) series-excited, steel radiator of uniform cross section. Theoretical RMS: 373.85 mV/m/km, night, 305.78 mV/m/km day, Augmented RMS: 199.6 mV/m/km day. Standard RMS: 244.06 mV/m/km, night. KFMC -FM antenna side mounted on north (#1) tower. Q= 8.0 night, 6.0 day.

Height above Insulators: N(#1) 121.9 m (200.6°), C (#2) 79.2 m (130.4°), S(#3) 45.7 m (75.2°)

Overall Height: N(#1) 122.8 m, C(#2) 80.2 m, S(#3) 46.6 m

Spacing and Orientation: Adjacent towers are 54.9 m (90°) apart on a line bearing 12° TN.

Non-Directional Antenna: None authorized.

Ground System consists of 120-54.9 m equally spaced buried copper radials, plus 9.7 m square copper ground screen about each tower base. Radials are bonded to copper strap at point of intersection.

2. THEORETICAL SPECIFICATIONS

Tower	N(#1)	C(#2)	S(#3)
<b>Phasing:</b>			
Night	0°	146.8°	-86.1°
Day	-138°	0°	- - -
<b>Field Ratio:</b>			
Night	1.0	0.887	0.409
Day	1.0	2.2	- - -

3. OPERATING SPECIFICATIONS

Phase Indication\*:

Night	-161	0°	117
Day	-147.5	0°	- - -

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Tower	N(#1)	(C#2)	S(#3)
<b>Antenna Base Current Ratio</b>			
Night	2.36	1.00	2.36
Day	1.490	1.00	- - -
<b>Antenna Monitor Sample Current Ratio:</b>			
Night	0.49	1.00	0.47
Day	0.355	1.00	- - -

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

ANTENNA SAMPLING SYSTEM APPROVED UNDER SECTION 73.68(B) OF THE RULES.

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of  $100.5^{\circ}$  true North. Leaving the KSUM transmitter site, turn right (east) on West Lair Road 1.1 miles to the junction with Albion Avenue. Turn right (south) .5 miles to the junction with Bellvue Road. Turn left (east) .1 miles to the intersection of Bellvue Road and Stade Lane. The monitoring point is located at the edge of the road on Bellvue immediately west of the intersection. This location is 1.22 miles from the antenna. The field intensity measured at this point should not exceed 60 mV/m NIGHTTIME.

Direction of  $112^{\circ}$  true North. Leaving the transmitter site, proceed east on Lair Road to Albion Avenue/State Street. Proceed south .9 miles to Hall Street. proceed east on Hall Street .6 miles to Highway 15. Proceed south .5 miles to gravel road east. Proceed east .5 miles to monitor point located on north side of road immediately south of barn. This is location 311, 2.48 miles from the antenna. The field intensity measured at this point should not exceed 44.1 mV/m, Daytime.

Direction of  $224^{\circ}$  true North. Leaving the KSUM transmitter site, turn left (west) on West Lair Road .5 miles to the junction with Highway 39. Turn left (south) 1.0 miles to a township road at a tee intersection west. Turn right (west) .4 miles to the monitor point located at the south edge of the blacktop township road. A red paint dot has been placed on the blacktop as a marker of the precise location. This location is 1.22 miles from the antenna. The field intensity measured at this point should not exceed 121.0 mV/m Nighttime.

Direction of  $253^{\circ}$  true North. Leaving the transmitter, proceed west .5 miles to blacktop highway. Turn south and proceed 1.0 miles to top of hill. Turn west and proceed 1.0 miles to intersection. Turn north .42 miles to monitor point on east side of road north of driveway to farm. This location is 809, 1.55 miles from the antenna. The field intensity measured at this point should not exceed 74.2 mV/m, Daytime.

Direction of  $160^{\circ}$  true North. Leaving the KSUM transmitter site, turn right (east) on West Lair Road 1.1 miles to the junction with Albion Avenue. Turn right (south) 1.5 miles to the junction with Amber Lake Drive. Turn right (southwest) .25 miles to the junction with Interlaken Road. Turn right (northwest) following Interlaken .6 miles to its termination at a four-way corner. Turn right (north) onto Southwood Drive following it through a left curve to a cul de sac. The monitor point is located at the eastern edge of the cul de sac circle in the road. This location is 1.02 miles from the antenna. The field intensity measured at this point should not exceed 133.2 mV/m, Nighttime.

CONTINUED:DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of 283.5° true North. Leaving the KSUM transmitter site, turn left (west) on West Lair Road .5 miles to the junction with Highway 39. This point is the corporate boundary of Fairmont and West Lair Road ends by that name. The roadway continues west as a township road. Proceed west an additional two miles to the junction with a north/south township road. Turn right (north) .5 miles to the monitor point located immediately north of a drive to a farm east of the township road. This location is 2.54 miles from the antenna. The field intensity measured at this point should not exceed 24.9 mV/m Nighttime.