February 1977

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

File No.: BR-820628AI

Call Sign: K S U M

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

WOODWARD BROADCASTING, 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 APRIL 1, 1983

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

1. On a frequency of 1370 kHz.
2. With nominal power of 1 kilo watts nighttime and 1 kilo watts daytime,
   with antenna input power of 1080 watts ---directional antenna nighttime ..... [COMMON POINT / COMMON POINT] current 4.0 amperes, resistance 67.5 ohms,
   and antenna input power of 1080 watts --- directional antenna daytime ..... [COMMON POINT / COMMON POINT] current 4.0 amperes, resistance 67.5 ohms
3. Hours of operation: UNLIMITED:
   Average hours of sunrise and sunset:
   Jan. 7:45am to 5:00pm; Feb. 7:15am to 5:45pm;
   Mar. 6:30am to 6:30pm; Apr. 5:30am to 7:00pm;
   May 5:00am to 7:30pm; June 4:30am to 8:00pm;
   July 4:45am to 8:00pm; Aug. 5:15am to 7:30pm;
   Sep. 6:00am to 6:30pm; Oct. 6:30am to 5:30pm;
   Nov. 7:15am to 5:00pm; Dec. 7:45am to 4:45pm;
   CENTRAL STANDARD TIME (NON-ADVANCED)
4. With the station located at: FAIRMONT, MINNESOTA
5. With the main studio located at: 306 North Park Street, Fairmont, Minnesota
6. Remote control point: 306 North Park Street, Fairmont, Minnesota
7. Transmitter location: West Lair Rd., approx. 2 miles SW of center of Fairmont, Minnesota
   North Latitude: 43 o 37 ' 45 "
   West Longitude: 94 o 29 ' 00 "
8. Obstruction marking specifications in accordance with the following paragraphs of FCC Form 715: C(#1) tower 1,3,12 & 21; N(#2) tower 1,3,12&21; S(#3) tower 1 only.
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

Dated: AUGUST 17, 1982

FEDERAL COMMUNICATIONS COMMISSION

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FCC Form 353-A
June 1980

File NO.: BL-820628AI Call Sign: K S U M Date: 8-17-82

DA- 2

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

No. and Type of Elements: Three (3) guyed series-excited, steel radiators of uniform cross section. Theoretical RMS: 232.3 mV/m, night, 190 mV/m, day Standard RMS: 244.06 mV/m, night. KFMC-FM antenna side mounted on North (#1) tower.

	N(#1)	C(#2)	S(#3)
Height above Insulators:	400 ft (200.6°)	260 ft (130.4°)	150 ft (75.2°)
Overall Height:	403 ft	263 ft	153 ft

Spacing and Orientation: Adjacent towers are 180 ft (90°) apart on a line bearing 12° TN.

Non-Directional Antenna: None authorized.

Ground System consists of 120-180' equally spaced buried copper radials, plus a 32' 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)
Phasing:	Night	0°	146.8°	-86.1°
	Day	-138	0°	
Field Ratio:	Night	1.0	0.887	0.409
	Day	1.0	2.2	

3. OPERATING SPECIFICATIONS

Phase Indication*:	Night	-150.5°	0°	114°
	Day	-145°	0°	
Antenna Base Current Ratio:	Night	5.00	1.00	3.355
	Day	1.99	1.00	
Antenna Monitor Sample Current Ratio:	Night	0.908	1.00	0.885
	Day	0.435	1.00	

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

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

Field intensity 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 thirty days and an appropriate record kept of all measurements so made.

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of 100.5° 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° 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 38 mV/m DAYTIME.

Direction of 224° 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 1.25 miles from the antenna. The field intensity measured at this point should not exceed 114 mV/m NIGHTTIME.

Direction of 253° 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 73 mV/m DAYTIME.

Direction of 160° 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 120 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 mV/m.