

UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION

File No.: BL-790126AH

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, <sup>1/</sup>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 October 1, 1981

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  common point current 4.0 amperes antenna nighttime .....  common point resistance 67.5 ohms and antenna input power of 1080 watts - directional  common point current 4.0 amperes antenna daytime .....  common point 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 ° 37 ' 45 "  
West Longitude: 94 ° 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): FCC 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.

<sup>1/</sup>This license consists of this page and pages 2 & 3.

Dated: September 24, 1979

FEDERAL  
COMMUNICATIONS  
COMMISSION



File No.: BL-790126AH

Call Sign: KSUM

Date: 9-24-79

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

DA- 2, U

No. and Type of Elements: Three, guyed, series-excited, steel radiators of uniform cross-section. Theoretical RMS: 190 mV/m day; 180 mV/m night. KFMC-FM antenna will be side mounted on the north (No. 2) tower.

	N(No.2)	C(No.1)	S(No.3)
Height above Insulators:	400' (200.5°)	260' (130.3°)	150' (75.2°)
Overall Height:	403'	263'	153
Spacing and Orientation:	Towers are adjacent 180' (90°) on a line 12° true.		

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	C(No.1)	N(No.2)	S(No.3)
Phasing:	Night	0°	-138°	138°
	Day	0°	-138°	---
	Field Ratio:	Night	1.5	1.0
	Day	2.2	1.0	---

3. OPERATING SPECIFICATIONS

Phase Indication*:	Night	-137°	92°	0°
	Day	0°	-145°	---
Antenna Base Current Ratio:	Night	0.240	0.820	1.00
	Day	1.00	1.99	---
Antenna Monitor Sample Current Ratio:	Night	0.835	0.440	1.00
	Day	1.00	0.435	---

\*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 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 thirt days and an appropriate record kept of all measurements so made.

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of  $103^{\circ}$  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 1.6 miles, crossing Highway 15 to a T intersection. Proceed south .2 miles to the monitor point located in the road south of the driveway to the east. This is location 211, 2.9 miles from the antenna. The field intensity measured at this point should not exceed 12.5 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 14.8 mV/m, NIGHTTIME and 38 mV/m, DAYTIME.

Direction of  $218^{\circ}$  true North. Leaving the transmitter, proceed west .5 miles to black-top highway. Turn south and proceed 1.0 miles to top of hill. Turn west and proceed .25 miles to monitor point at field gate on south side of road. This location is 705, 1.18 miles from the antenna. The field intensity measured at this point should not exceed 24 mV/m, NIGHTTIME.

Direction of  $253^{\circ}$  true North. Leaving the transmitter, proceed west .5 miles to black-top 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 38.6 mV/m, NIGHTTIME and 73 mV/m, DAYTIME.

Direction of  $286^{\circ}$  true North. Leaving the transmitter, proceed west 2.5 miles to intersection of gravel roads. Turn north and proceed .62 miles to monitor point located on the road at a marked fence post. This is location 909, 2.57 miles from the antenna. The field intensity measured at this point should not exceed 22.8 mV/m, NIGHTTIME.