FCC Form 352
February 1977

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

File No.: BR790927UF
FAC ID: 21691
Call Sign: K S C J

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

G AND G 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 **FEBRUARY 1, 1983**

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

1. On a frequency of **1360** kHz.
2. With nominal power of **5 kilo** watts nighttime and **5 kilo** watts daytime,
   with antenna input power of **5.4 kilo** watts *** directional [COMMON POINT current **10.4** amperes; COMMON POINT resistance **50** ohms,]
   antenna nighttime .....
   and antenna input power of **5 kilo** watts **non** directional [ANTENNA current **2.46** amperes; ANTENNA resistance **824** ohms]
   antenna daytime .....
3. Hours of operation: **UNLIMITED:**
   Average hours of sunrise and sunset:
   Jan. 8:00am to 5:15pm; Feb. 7:30am to 6:00pm;
   Mar. 6:45am to 6:30pm; Apr. 5:45am to 7:00pm;
   May 5:00am to 7:45pm; June 4:45am to 8:00pm;
   July 5:00am to 8:00pm; Aug. 5:30am to 7:30pm;
   Sep. 6:00am to 6:45pm; Oct. 6:45am to 5:45pm;
   Nov. 7:15am to 5:00pm; Dec. 7:45am to 5:00pm;
   CENTRAL STANDARD TIME (NON-ADVANCED)
4. With the station located at: **SIOUX CITY, IOWA**
5. With the main studio located at: **5000 Highway 75 North**
   Sioux City, Iowa
6. Remote control point: **5000 Highway 75 North**
   Sioux City, Iowa
7. Transmitter location:
   5000 Highway 75 North
   Sioux City, Iowa
   North Latitude: **42 o 33' 24"**
   West Longitude: **96 o 20' 12"**
8. Obstruction marking specifications in accordance with the following paragraphs of FCC Form 715: **1,3,12 & 21.**
   (For East & West towers) 1,2,12 & 21 for the two inner towers.
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: **MARCH 19, 1980**

FEDERAL COMMUNICATIONS COMMISSION

FCC Form 353-A
April 1973

FAC ID: 21691

File No.: BR790927UF Call Sign: K S C J Date: 3-19-80

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM DA- N

No. and Type of Elements: Four uniform cross-section, guyed, series-excited, vertical radiators.

	W(#1)	WC(#2)	EC(#3)	E(#4)
Height above Insulators:	300'(149.5°)	200'(99.5°)	200'(99.5°)	300'(149.5°)
Overall Height:	304'	205'	205'	309'

Spacing and Orientation: Spaced 155'(77.2°) #1 - #2
385'(191.5°) #2 - #3
155'(77.2°) #3 - #4
Oriented on a line bearing 89° true.

Non-Directional Antenna: West tower used. Center towers open-circuited. East tower detuned to ground.

Ground system consists of Center towers have 90 radials and end towers have 120 radials a minimum length of 300' except when radials intersect between towers. Intersecting radials are bonded together at points of overlap. 24' square ground screens under each tower.

2. THEORETICAL SPECIFICATIONS

TOWER	W(#1)	WC(#2)	EC(#3)	E(#4)
Phasing:	158°	0°	0°	22°
Field Ratio:	1.0	.35	.35	1.0

3. OPERATING SPECIFICATIONS

Phase Indication*:	+142°	+22°	+6°	0°
Antenna Base Current Ratio:	1.03	1.36	1.35	1.0
Antenna Monitor Sample Current Ratio:	0.70	0.40	0.56	1.00

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

f remote control authority for directional operation is not authorized, if authorized but is not being used, the base currents, their ratios, the deviation of these ratios, in percent, from the licensed values l be entered in the maintenance log at least once every seven days no less than five days elapsing between seccessive observations.

3-19-80

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of 70° true North. Proceed west from transmitter house to U.S. Highway 75. Proceed NE on U.S. #75 approximately 1.8 miles to the village of James, Iowa. Turn east on Plymouth County Highway J and proceed 4.2 miles to intersection. Turn north and proceed approximately 0.4 mile. On the west edge along fence line will be found a sign "KSCJ 1 Montoring Point." The actual monitoring point is in the middle of the road due east of this sign. Distance from antenna, 5.4 miles. The field intensity at Night measured at this point should not exceed 9.0 mv/m.

Direction of 85° true North. From Monitoring Point #1 proceed south 1.4 miles. On the SW corner of the "T" intersection, on fence line, will be found a sign "KSCJ" 2 Monitoring Point." The actual monitoring point is in the middle of the road intersection. Distance from antenna, 5.3 miles. The field intensity at NIGHT measured at this point should not exceed 21 mv/m.

Direction of 108° true North. From Monitoring Point #2, proceed south 2.1 miles. Along the west fence line, about 300 feet south of intersection will be found a sign "KSCJ 3 Monitoring Point." The actual monitoring point is on west edge of road opposite this sign. Distance from antenna, 5.4 miles. An Alternate point is located more favorably from the standpoint of overhead obstruction. Proceed north to intersection, then west to first farmhouse driveway on north side of road. Alternate is located 250' north on east edge of driveway. The field intensity at NIGHT measured at point #3 should not exceed 10 mv/m.

Direction of 136° true North. From Monitoring Point #3, proceed south 0.9 mile to next intersection. Turn west and proceed 2.0 miles to Woodbury County Highway X. Turn south and proceed approximately 0.7 miles to bridge. Just south of bridge along west fence line is a sign "KSCJ 4 Monitoring Point." The actual monitoring point is at south edge of bridge on the west side of the road. Distance from antenna, 4.5 miles. The field intensity at NIGHT measured at this point should not exceed 81 mv/m.

Direction of 184° true North. Leaving the transmitter site, proceed south on U. S. Highway 75 for a distance of 5.1 miles to an interchange with U. S. Highway 20. Turn east on U. S. 20 and proceed 1.8 miles to a cross road (Stone Avenue). Turn left, east, on Stone Avenue and proceed one-half mile to Pongranite Street. Turn left and proceed 150 feet to the monitor point. The measuring location is in the middle of the street. Distance from antenna, 5.38 miles. The field intensity measured at this point should not exceed 21 mv/m.

Direction of 246° true North. Proceed to the grounds of the Sioux City Water Reservoir at 37th and Virginia Street (extended) in Sioux City. The monitoring point is approximately 30' north of the valve control building and at the north edge of the circle drive around the building. This point is 0.2 miles west of the old point #6. Distance from antenna 3.66 miles. The field intensity at NIGHT measured at this point should not exceed 100 mv/m.

Direction of 294° true North. From Monitor Point #6 return to Jackson Street, thence south to 36th Street turning right (west) on 36th to State Route (Dearborn Boulevard). Turn right 9/10 of a mile to a Tee intersection. Turn right (east) and proceed 300 feet to KSCJ #7 sign. The measuring location is opposite the sign on the south shoulder of the highway. This distance is 3.2 miles. The field intensity measured at this point should not exceed 115 mv/m.