

UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION

BR-2082  
File No.: BZ-811013AM

Call Sign: K F G O

STANDARD BROADCAST STATION LICENSE

RENEWAL & MODIFICATION

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, -the LICENSEE

COMMUNICATIONS PROPERTIES, 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:

- On a frequency of 790 kHz.
- With nominal power of 5 kilo watts nighttime and 5 kilo watts daytime, with antenna input power of 5400 watts directional 

Common Point	current	10.4	amperes
Common Point	resistance	50	ohms,
Antenna	current	15.24	amperes
Antenna	resistance	21.5	ohms

  - antenna nighttime .....
  - and antenna input power of 5000 watts non directional .....
  - antenna daytime .....

- Hours of operation: Unlimited Time.  
Average hours of sunrise and sunset:  
Jan. 8:15 am to 5:00 pm; Feb. 7:30 am to 5:45 pm;  
Mar. 6:45 am to 6:30 pm; Apr. 5:45 am to 7:15 pm;  
May 5:00 am to 8:00 pm; June 4:30 am to 8:15 pm;  
July 4:45 am to 8:15 pm; Aug. 5:30 am to 7:45 pm;  
Sep. 6:00 am to 6:45 pm; Oct. 6:45 am to 5:45 pm;  
Nov. 7:30 am to 5:00 pm; Dec. 8:00 am to 4:45 pm;  
Central Standard Time (Non-Advanced)

- With the station located at: Fargo, North Dakota
- With the main studio located at: 405 South 7th Street  
Fargo, North Dakota
- Remote control point: 405 South 7th Street  
Fargo, North Dakota

- Transmitter location:  
On Highway #81  
Approxiamtely 9 mi. S. of  
Fargo, North Dakota  
North Latitude: 46° 43' 05"  
West Longitude: 96° 48' 05"

- Obstruction marking specifications in accordance with the following paragraphs of FCC Form 715: 1, 3, 12 & 21.
- Transmitter(s): Type Accepted
- 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 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.

Dated: April 23, 1982

FEDERAL  
COMMUNICATIONS  
COMMISSION



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File NO.: BR-2082  
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Call Sign: KFGO

Date: 4-23-82

DA-N

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

No. and Type of Elements: Three triangular tapered self-supporting series-excited vertical radiators.

Height above Insulators: 265'

Overall Height: 270'

Spacing and Orientation: 207' (60°) between adjacent towers, line of towers bears 177° T.

Non-Directional Antenna: Center Tower

Ground System consists of 120 radials equally spaced, around each tower. Ground screen consists of 48' square copper mesh beneath each tower. Where radials intersect, they are bonded together.

2. THEORETICAL SPECIFICATIONS

Phasing:	N(#1) -161.4°	C(#2) 0°	S(#3) 161.4°
Field Ratio:	0.5	0.954	0.5

3. OPERATING SPECIFICATIONS

Phase Indication*:	-166°	0°	166°
Antenna Base Current Ratio:	0.56	1.00	0.58
Antenna Monitor Sample Current Ratio:	0.54	1.00	0.55

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

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

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of  $88^{\circ}$  true North. Go North 9/10 miles on highway 81 to intersection. Then turn east and go 2.0 miles to highway 75. Then go 8/10 miles south to monitor point. Reading is on west side of highway. This point is 2.0 miles from KFGO. The field intensity measured at this point should not exceed 14.5 mv/m.

Direction of  $124^{\circ}$  true North. Leaving  $88^{\circ}$  monitor point, proceed south on highway 75 1.2 miles to clay county road 60. Go right (west) 0.4 miles to monitor point. Reading is 10 feet east of mail box. This point is 1.9 miles from KFGO. The field intensity measured at this point should not exceed 20.3 mv/m.

Direction of  $177^{\circ}$  true North. Go south 2.1 miles on highway 81 to side road. Turn left, and stop. Reading is 100 feet north of corner, from sign. This point is 2.0 miles from KFGO. The field intensity measured at this point should not exceed 130 mv/m.

Direction of  $248^{\circ}$  true North. Go south 0.1 miles to side road (Cass County). Turn right (west) 1.0 miles to side road. Turn south 0.2 miles to monitor point. Reading is taken just south of driveway to east. This point is 1.0 miles from KFGO. The field intensity measured at this point should not exceed 53 mv/m.