



**United States of America**  
**FEDERAL COMMUNICATIONS COMMISSION**  
**AM BROADCAST STATION LICENSE**

Authorizing Official:

Official Mailing Address:

NEBRASKA RURAL RADIO ASSOCIATION  
P.O. BOX 880  
LEXINGTON NE 68850

Son Nguyen  
Supervisory Engineer  
Audio Division  
Media Bureau

Grant Date: September 10, 2003

Facility Id: 51463

Call Sign: KNEB

This license expires 3:00 a.m.  
local time, June 01, 2005.

License File Number: BL-20030520BCC

This authorization re-issued to correct sunrise and sunset time. HKC  
9/23/03.

Subject to the provisions of the Communications Act of 1934, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this license, the licensee is hereby authorized to use and operate the radio transmitting apparatus herein described.

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 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. 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.

Hours of Operation: Unlimited

Average hours of sunrise and sunset:  
Local Standard Time (Non-Advanced)

Jan.	7:15 AM	4:45 PM	Jul.	4:30 AM	7:30 PM
Feb.	6:45 AM	5:30 PM	Aug.	5:00 AM	7:00 PM
Mar.	6:15 AM	6:00 PM	Sep.	5:30 AM	6:00 PM
Apr.	5:15 AM	6:30 PM	Oct.	6:00 AM	5:15 PM
May	4:30 AM	7:00 PM	Nov.	6:45 AM	4:30 PM
Jun.	4:15 AM	7:30 PM	Dec.	7:15 AM	4:30 PM

Name of Licensee: NEBRASKA RURAL RADIO ASSOCIATION

Station Location: SCOTTSBLUFF, NE

Frequency (kHz): 960

Station Class: B

Antenna Coordinates:

Day

Latitude: N 41 Deg 47 Min 30 Sec

Longitude: W 103 Deg 38 Min 29 Sec

Night

Latitude: N 41 Deg 47 Min 30 Sec

Longitude: W 103 Deg 38 Min 29 Sec

Transmitter(s): Type Accepted. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.

Nominal Power (kW): Day: 5.0 Night: 0.35

Antenna Input Power (kW): Day: 5.4 Night: 0.378

Antenna Mode: Day: DA Night: DA

(DA=Directional Antenna, ND=Non-directional Antenna; CH=Critical Hours)

Current (amperes): Day: 10.39 Night: 2.75

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1236383	
2	1236384	

Night:

Tower No.	ASRN	Overall Height (m)
1	1236383	
2	1236384	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 721.44 Night: 200.32

Standard RMS (mV/m/km): Day: 757.87 Night: 210.6

Augmented RMS (mV/m/km):

Q Factor: Day: Night:

Theoretical Parameters:

Day Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	1.0000	0.000	0.0000	0.000		105.3
2	0.6800	-120.000	80.0000	5.000		105.3

\* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	1.0000	0.000	0.0000	0.000		105.3
2	0.8000	-178.500	80.0000	5.000		105.3

\* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Day Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	-120	0.98
2	0	1

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	-177	0.83
2	0	1

Antenna Monitor: POTOMAC INSTRUMENTS 1901

Sampling System Approved Under Section 73.68 of the Rules.

Monitoring Points:

Day Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
143.5	3.57	60.07
226.5	5.71	42.89

Night Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
96	3.75	10.91
274	4.33	10.14

Special operating conditions or restrictions:

1 Monitor point readings shall be taken at the following locations:

143.5 degrees T: From the access road (on the east side of the Gering Valley Drain (ditch)) and the Sandberg Road (County Road S) proceed east to County Road #24 - 4.02 km. Turn right on County Road #24 and travel south 2.17 km to MP. MP is at the steel post with station call letters "KNEB" on it.  
DISTANCE: 3.57 km. LIMIT: 60.07 mV/m DAYTIME.

226.5 degrees T: From the access road (on the east side of the Gering Valley Drain (ditch)) and the Sandberg Road (County Road S) go west 2.41 km to Highway #71. At Highway #71 turn left (south) and proceed 3.2 km to County Road U. Turn right on County Road U and go west 1.45 km to the Leland Buehler Family mailbox at 200102. MP is at the Buehler Family mail box 200102 on County Road U.  
DISTANCE: 5.71 km. LIMIT: 42.89 mV/m DAYTIME.

96 degrees T: From the access road (on the east side of the Gering Valley Drain (ditch)) and the Sandberg Road (County Road S) turn left and proceed east to County Road #25 4.02 km. Turn left on County Road #25 and proceed 0.32 km to MP. MP is located on the east side of the road at the steel post which has our station call letters "KNEB" on it.  
DISTANCE: 3.75 km. LIMIT: 10.91mV/m NIGHTTIME.

274 degrees T: From the access road (on the east side of the Gering Valley Drain (ditch)) and the Sandberg Road (County Road S) proceed west (right) 4.02 km to County Road #20. You will cross over Highway #71, plus the Sandberg Road changes name to Carter Canyon Road. At County Road #20 turn right and proceed north 1.05 km to the MP. MP is located on the west side of the road at the steel post which has our station call letters "KNEB" on it.  
DISTANCE: 4.33 km. LIMIT: 10.14 mV/m NIGHTTIME.

\*\*\* END OF AUTHORIZATION \*\*\*