



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

Susan N. Crawford
Senior Engineer
Audio Division
Media Bureau

Grant Date: June 06, 2003

This license expires 3:00 a.m.
local time, June 01, 2021.

Facility Id: 48002

Call Sign: KRVN

License File Number: BL-20030131AKK

This license re-issued October 14, 2015, by SNC to add a Special Operating Condition authorizing the use of modulation dependent carrier level (MDCL) control technology.

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.	8:00 AM	5:30 PM	Jul.	5:15 AM	8:00 PM
Feb.	7:30 AM	6:15 PM	Aug.	5:45 AM	7:30 PM
Mar.	6:45 AM	6:45 PM	Sep.	6:15 AM	6:45 PM
Apr.	6:00 AM	7:15 PM	Oct.	6:45 AM	6:00 PM
May	5:15 AM	7:45 PM	Nov.	7:30 AM	5:15 PM
Jun	5:00 AM	8:15 PM	Dec	8:00 AM	5:15 PM

Name of Licensee: NEBRASKA RURAL RADIO ASSOCIATION

Station Location: LEXINGTON, NE

Frequency (kHz): 880

Station Class: B

Antenna Coordinates:

Day

Latitude: N 40 Deg 30 Min 57 Sec
Longitude: W 99 Deg 23 Min 47 Sec

Night

Latitude: N 40 Deg 30 Min 57 Sec
Longitude: W 99 Deg 23 Min 47 Sec

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

Nominal Power (kW): Day: 50.0 Night: 50.0

Antenna Input Power (kW): Day: 50.0 Night: 52.65

Antenna Mode: Day: ND Night: DA

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

Current (amperes): Day: 31.1 Night: 15

Resistance (ohms): Day: 51.7 Night: 234

Non-Directional Antenna: Day

Radiator Height: 91.4 meters; 96.6 deg
Theoretical Efficiency: 310.07 mV/m/kw at 1km

Antenna Registration Number(s):

Day:

Tower No. ASRN Overall Height (m)
1 1025464

Night:

Tower No. ASRN Overall Height (m)
1 1025462
2 1025463
3 1025464
4 1025465

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Night: 2268.6
 Standard RMS (mV/m/km):
 Augmented RMS (mV/m/km): Night: 2575.6
 Q Factor: Night:

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.1500	179.000	0.0000	0.000	0	96.6
2	0.6700	-90.000	100.0000	81.000	0	96.6
3	1.0000	0.000	200.0000	81.000	0	96.6
4	0.5000	88.000	300.0000	81.000	0	96.6

* Tower Reference Switch

- 0 = Spacing and orientation from reference tower
- 1 = Spacing and orientation from previous tower

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
1	27.0	56.0	225.31
2	134.0	50.0	212.43
3	171.0	40.0	1746.23
4	193.5	42.5	3216.93
5	216.0	42.5	3950.94
6	238.5	42.5	4021.75
7	261.0	45.0	4022.17
8	283.5	42.5	4021.49
9	306.0	45.0	3935.02
10	328.5	40.0	3249.88
11	351.0	45.0	1707.80

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	176.7	0.148
2	-91	0.719
3	0	1
4	89.6	0.459

Antenna Monitor: POTOMAC AM-1901

Sampling System Approved Under Section 73.68 of the Rules.

Special operating conditions or restrictions:

1 MONITOR POINT DESCRIPTIONS

63° - Point is 0.8 km north of 741 road on U Road to the top of small rise, 13.2 km from site, max 3.6 mV/m nighttime.

81° - From site proceed 0.32 km to main gravel road and turn right. Proceed 0.97 km on gravel road to intersection and turn right. Proceed 12.1 km to seventh intersection, Funk-Odessa Road (paved) and continue 3.22 km on gravel road to intersection and turn left. Proceed north 1.13 km on gravel road and turn into field on west side of road. Irrigation well in field on west side of road at this point. Point is located in field 100 feet west of well, 15.3 km from site, max 9.6 mV/m nighttime.

98° - Point is 150 feet east of V Road on 736 Road. Three large grain bins are located just to the west of point on north side of road, 16.9 km from site, max 3.0 mV/m nighttime.

2 Waiver of 47 C.F.R. Section 73.1560(a) is granted to permit the licensee to operate with modulation dependent carrier level (MDCL) control technology, which reduces transmitter power at certain modulation levels.

3 The permittee/licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

*** END OF AUTHORIZATION ***