

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

File No.: BL-860221AA

Call Sign: KINN

AM BROADCAST STATION LICENSE

Subject to the provisions of the Communications Act of 1934, as amended, subsequent Acts, Treaties, and Commission Rules made thereunder, and further subject to conditions set forth in this license,¹ the LICENSEE

The Navajo Nation

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 in accordance with the following:

Oct. 1, 1990

1. Station location: Window Rock, AZ

2. Main Studio location:
(Listed only if not at transmitter site or not within boundaries of principal community)

3. Remote control location: Highway 264 Window Rock Shopping Center, Window Rock, AZ

4. Transmitter location: Junction Indian Roads 7 and 72 Near Sawmill Arizona

North latitude : 35 ° 53 ' 42 "
West longitude: 109 ° 09 ' 29 "

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

6. Antenna and ground system: See page 2 attached

7. Obstruction marking and lighting specifications — FCC Form 715, paragraphs: 1,3,12,21 & 22

8. Frequency (kHz.): 660

9. Nominal power (kW): 50.0 Day
50.0 Night

Antenna input power (kW): 50 Day

Non-directional antenna: current 38.9 amperes; resistance 33 ohms.
 Directional antenna : current _____ amperes; resistance _____ ohms.

52.6 Night

Non-directional antenna: current _____ amperes; resistance _____ ohms.
 Directional antenna : current 32.43 amperes; resistance 50 ohms.

10. Hours of operation: Specified in construction permit (BP -810306AH & BPP-860103AA)

11. Conditions:

The Commission reserves the right during said license period of terminating this license or making effective any change, 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, as amended. 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, as amended.

¹ This license consists of this page and pages



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Date:

DA- N

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

No. and Type of Elements: Two Towers uniform cross-section, guyed, base insulated
 Theoretical RMS = 2169.39 mV/m/km. Standard RMS = 2278.83 mV/m/km. Two(2)
 communications type antennas are sidemounted on E(#2) tower.

Height above Insulators: 330' (79.9°)

Overall Height: 332'

Spacing and Orientation: From West Tower #1, East Tower #2 is spaced 351.9' (85°)
 on a line bearing 86° T.

Non-directional Antenna: #1 (W) Theoretical Efficiency 297.72 mV/m/Km.

Ground system consists of 120-370' equally spaced buried radials about the base
 of each tower and extending to intersection with transverse copper strap. In
 addition a 48' x 48' mesh screen has been installed at the base.

THEORETICAL SPECIFICATIONS

Phasing:	Tower	(W) #1	(E) #2
	Night	0°	102.3°
Field Ratio:	Night	1	1

OPERATION SPECIFICATIONS

Phase Indication*: <u>1/</u>	Night	0°	101°
Antenna Base Current Ratio: <u>2/</u>	Night	1.00	1.040
Antenna Monitor Sample Current Rattio: <u>3/</u>	Night	1.00	1.02

As indicated by Gorman-Redlick CMR(3-242) Serial #349 antenna monitor.
 Monitor acceptable for critical array on condition that sample current
 ratios remain essentially unity.

- 1/ Permissible deviations from these values shall not exceed + 75°
- 2/ Permissible deviations from these values shall not exceed ± 5%
- 3/ Permissible deviations from these values shall not exceed ± 1.3%

Antenna sampling system approved under section 73.68(b) rules.

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DESCRIPTION OF AND STRENGTH OF MONITORING POINTS:

Direction of 62 degrees true north. From the station transmitter building, proceed west along the station driveway for a distance of 0.6 miles (1 km.) to the junction with the main road. Turn left and proceed eastward for a distance of 3.3 miles (5.3 km.) to the intersection with a road to the north. Proceed north on this road for a distance of 0.85 miles (1.4 km.). Turn left (west) and proceed along a driveway for a distance of 0.3 miles (0.5 km.) to an intersection with a road to the north. Proceed along this road for a distance of 0.4 miles (0.65 km.) to an intersection with an east/west trail. Proceed across this trail in a northerly direction for a distance 1.55 miles (2.5 km.) to a house next to a corral. Turn left (west) between house and corral and proceed west for a distance of 0.1 miles (0.55 km.) to the point. The point is located next to the tree line to the north and is marked with a steel stake. Radial point number 8; Distance from transmitter: 3.09 miles (4.97 km). The field intensity measured at this point should not exceed 12.8 mV/m.

Direction of 110 degrees true north. From the station transmitter building, proceed west along the station driveway for a distance 0.6 miles (1 km.) to the junction with the main road. Turn left and proceed eastward for a distance of 3.3 miles (5.3 km.) to the intersection with a road to the north. Proceed north on this road for a distance of 0.55 miles (0.9 km.). The point is located on the west shoulder of this road and marked with a steel stake. The field intensity measured at this point should not exceed 12.3 mV/m.