

AM BROADCAST STATION LICENSE

Call Sign : WIOZ

LICENSEE: Muirfield Broadcasting, Inc.

- 1. Community of License : Pinehurst, NC
- 2. Transmitter location. : 0.4 miles west of NC Hwy #5 & north of New Land Fill Rd., Sand Hills, NC
- North Latitude. : 35° 09' 04"
- West Longitude : 79° 28' 40"
- 6. Antenna and ground system: Attached

- 3. Transmitter(s): Type Accepted. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's rules)
- 4. Main Studio Location: (See Section 73.1125)
Corner Short & Long Streets between Pinehurst & South Pines, North Carolina
- 5. Remote control location
Corner Short & Long Streets between Pinehurst & South Pines North Carolina

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

8. Frequency : 550 kHz

9. Nominal power (kW) : 1 Day 0.26 Night

Antenna input power (kW) :

1.08 Day Non-directional antenna: current 4.65 amperes: resistance 50 ohms.
 Directional antenna

0.28 Night Non-directional antenna: current 2.38 amperes: resistance 50 ohms.
 Directional antenna

10. Hours of operation : BL-800318AH

11. Conditions : ---

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 is hereby authorized to use and operate the radio transmitting apparatus herein described for the purpose of broadcasting for the term ending 3 A.M. Local Time

December 1, 2002

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.

The license is issued on the licensee's representation that the statements contained in the 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, as amended. This license is subject to the right of control by the Government of the United States conferred by section 606 of the Communications Act of 1934, as amended.

HKC:rao

FEDERAL
COMMUNICATIONS
COMMISSION



¹ This license consists of this page and pages 2 & 3

Dated:

MAR 27 1996

File No.: BZ-951107AB

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1. **DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM**

No. and Type of Elements: Two (2), guyed towers. The #1(NW) tower is a uniform cross section series excited tower. The #2(SE) tower is a shunt fed (folder unipole fed) antenna with an FM, STL and a remote pickup antenna side mounted.
Theoretical RMS: 153.86 mV/m @ 1 km, Night; 301.75 mV/m @ 1 km, Day; 161.64 mV/m @ 1km, Night; 317.0 mV/m @ 1 km, Day. Q = 5.1, Night; 10 Day.

Height above Insulators: 136.2 m

Overall Height: 136.9 m

Spacing and Orientation: Towers are spaced 136.28 m (90°) apart on a line bearing 280° True.

Non-Directional Antenna: None Authorized.

Ground System consists of 120-136.28 m equally spaced copper radials about the base of each tower except where radial are shortened and bonded to a strap midway between towers.

2. **THEORETICAL SPECIFICATIONS**

Towers:		#1(NW)	#2(SE)
Phasing:	Day & Night	0°	-90°
Field Ratio:	Day & Night:	1.0	0.9

3. **OPERATING SPECIFICATIONS**

Phase Indication*:			
	Day & Night:	0°	-97°

Antenna Base			
Current Ratio:			
	Day & Night:	1.0	0.5

Antenna Monitor Sample			
Current Ratio:			
	Day & Night:	1.0	0.49

* As indicated by Potomac Instruments AM-19 (204) Antenna Monitor.
Antenna sampling system approved under Section 73.68 (b) of the Rules.

DIRECTION OF AND FIELD INTENSITY MEASURED AT MONITORING POINTS:

Direction of 100° True North. From the transmitter site proceed south on Highway #5 for 3.0 miles to US Highway #1; turn left north on US Highway #1 and go 0.9 mile to Forest Hills Drive; turn left, west, on Forest Hills Drive and go 100 feet to the "Y" in the road. The measuring site is 50 feet in from the "Y" intersection on the right fork of the "Y" and on the lake side of the road opposite a large pine tree. The field intensity measured at this point should not exceed 43.5 mV/m.

Direction of 280° True North. From the transmitter site, proceed north on Highway #5 a distance of 0.5 mile to Linden Road; turn left. West on Linden Road and go 2.65 miles to the 90° sharp right turn in Linden Road; at the sharp right turn take the dirt road, left turn; proceed down the dirt road for 0.2 mile to the second right hand turn; turn right, west, and go 0.15 mile to the first left turn near the race track; take the left turn and proceed down the dirt road to the tree line at the end of field. The measuring site is 100 feet south of the dirt road and 50 feet into the field from the tree line. The field intensity measured at this point should not exceed 3.1 mV/m.

Direction of 320° True North. From the transmitter site go south on Highway #5, 0.5 mile through curve to Needham Grove Road, turn right, south, on Needham Grove Road and go 1.25 miles to Roseland Road, turn right, west, on Roseland Road and go 5.55 miles to Hoffman-West End Road; turn right north on Hoffman-West End Road and go 1.25 miles to a dirt road on right; turn right on Dirt road and proceed down road 100 feet. The measuring site is in the center of the dirt road 100 feet from the edge of Hoffman-West End Road. The field intensity measured at this point should not exceed 12.2 mV/m.