



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

Authorizing Official:

Official Mailing Address:

RADIO ONE OF NORTH CAROLINA, LLC  
1010 WAYNE AVENUE, 14TH FLOOR  
SILVER SPRING MD 20910

Susan N. Crawford  
Senior Engineer  
Audio Division  
Media Bureau

Grant Date: November 10, 2008

Facility Id: 30830

Call Sign: WBT

This license expires 3:00 a.m.  
local time, December 01, 2011.

License File Number: BZ-20080130AQR

This license re-issued January 29, 2013, 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.	7:30 AM	5:30 PM	Jul.	5:15 AM	7:45 PM
Feb.	7:15 AM	6:00 PM	Aug.	5:45 AM	7:15 PM
Mar.	6:30 AM	6:30 PM	Sep.	6:00 AM	6:30 PM
Apr.	5:45 AM	7:00 PM	Oct.	6:30 AM	5:45 PM
May	5:15 AM	7:15 PM	Nov.	7:00 AM	5:15 PM
Jun	5:15 AM	7:45 PM	Dec	7:30 AM	5:15 PM

Name of Licensee: RADIO ONE OF NORTH CAROLINA, LLC

Station Location: CHARLOTTE, NC

Frequency (kHz): 1110

Station Class: A

Antenna Coordinates:

Day

Latitude: N 35 Deg 07 Min 56 Sec

Longitude: W 80 Deg 53 Min 23 Sec

Night

Latitude: N 35 Deg 07 Min 56 Sec

Longitude: W 80 Deg 53 Min 23 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: 52.49

Antenna Mode: Day: ND Night: DA

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

Current (amperes): Day: 16.49 Night: 32.4

Resistance (ohms): Day: 184 Night: 50

Non-Directional Antenna: Day

Radiator Height: meters; 174 deg

Theoretical Efficiency: 374.98 mV/m/kw at 1km

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1007152	

Night:

Tower No.	ASRN	Overall Height (m)
1	1007151	
2	1007152	
3	1007153	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Night: 2558.86  
 Standard RMS (mV/m/km):  
 Augmented RMS (mV/m/km): Night: 2730.25  
 Q Factor: Night: 70.71

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.5070	49.000	0.0000	0.000	0	174.0
2	1.0000	0.000	144.0000	115.000	0	174.0
3	0.5070	-47.500	288.0000	115.000	0	174.0

\* 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	45.0	70.0	4506.16
2	80.0	70.0	3057.75
3	115.0	70.0	2172.61
4	150.0	70.0	3211.93
5	230.0	50.0	1528.88
6	255.0	10.0	233.35
7	260.0	10.0	144.84
8	265.0	10.0	104.61
9	270.0	10.0	107.83
10	275.0	10.0	107.83
11	280.0	10.0	107.83
12	285.0	10.0	117.48
13	290.0	10.0	98.17
14	295.0	10.0	88.51
15	300.0	10.0	88.50
16	305.0	10.0	141.62
17	310.0	10.0	88.50
18	315.0	10.0	83.69
19	320.0	10.0	88.50
20	325.0	10.0	160.93
21	330.0	10.0	193.12

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
22	335.0	10.0	225.31

Night Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
1 47.9	0.47
2 0	1
3 -51.5	0.475

Antenna Monitor: POTOMAC INSTRUMENTS AM- 190

Sampling System Approved Under Section 73.68 of the Rules.

Monitoring Points:

Night Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
265	6.87	20.64
285	7.72	11.9
305	10.91	11.9
325	8.79	13.6

Special operating conditions or restrictions:

- 1 Description of Directional Antenna system: Three (3) cantilevered-type, guyed, square cross-section, series-excited, vertical radiators. Several microwave dish antennas mounted on center tower (tower B).

Ground system consists of 120-67.1 m equally spaced buried copper radials about the base of each tower.

Special operating conditions or restrictions:

2 DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of 265° True North: The point is located on Goodrich Drive 0.4 miles south of Westinghouse Road. The point is 33 feet north of a culvert and on the west shoulder of the road. Distance from the array: 6.87 km NAD 27 coordinates: 35° 07' 36.4" N, 80° 57' 52.3" W. Nighttime

Direction of 285° True North: The point is located on Steele Creek Road. The point is 300 feet north of the intersection of Collingham Drive on the west shoulder of the road. Distance to the array: 7.72 km. NAD 27 coordinates: 35° 09' 00.6" N, 80° 58' 16.7" W. Nighttime

Direction of 305° True North: The point is located on Dixie River Road. The point is across from a gated road to the east, and located on the northwest shoulder of the road. Distance to the array is 10.91 km. NAD 27 coordinates: 35° 11' 18.9" N, 80° 59' 14.9" W. Nighttime

Direction of 325° True North: The point is located on Piney Top Drive. The point is 27 feet southwest of the intersection of NC SR 160/ West Boulevard on the southeast shoulder of the road. Distance to the array is 8.79 km. NAD 27 coordinates: 35° 11' 48.7" N, 80° 56' 44.4" W. Nighttime

- 3 Waiver of 47 CFR 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.
- 4 This license is effective pursuant to 47 U.S.C. Section 307(c)(3).
- 5 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 \*\*\*