



United States of America

**FEDERAL COMMUNICATIONS COMMISSION**  
**AM BROADCAST STATION LICENSE**

Official Mailing Address:

DAVIDSON COUNTY BROADCASTING COMPANY, INC.

200 RADIO DRIVE

LEXINGTON NC 27292

Authorizing Official:

*Son Nguyen*

Son Nguyen

Supervisory Engineer

Audio Division

Media Bureau

Facility Id: 15838

Call Sign: WLXN

License File Number: BL-20110906AHG

Grant Date: **DEC 23 2011**

This license expires 3:00 a.m.  
local time, December 01, 2019.

This license covers permit no.: BP-20110421AAY

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.	5:00 AM	7:45 PM	Dec.	7:30 AM	5:15 PM

WLXN Public File Copy

Callsign: WLXN

License No.: BL-20110906AHG

Name of Licensee: DAVIDSON COUNTY BROADCASTING COMPANY, INC.

Station Location: LEXINGTON, NC

Frequency (kHz): 1440

Station Class: B

Antenna Coordinates:

	Day		
Latitude:	N	35 Deg 50 Min	02 Sec
Longitude:	W	80 Deg 14 Min	02 Sec

	Night		
Latitude:	N	35 Deg 49 Min	56 Sec
Longitude:	W	80 Deg 17 Min	14 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: 1.0

Antenna Input Power (kW): Day: 5.0 Night: 1.08

Antenna Mode: Day: ND Night: DA

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

Current (amperes): Day: 4.94 Night: 4.6

Resistance (ohms): Day: 205 Night: 51

Non-Directional Antenna: Day

Radiator Height: 67 meters; 115.9 deg

Theoretical Efficiency: 323.48 mV/m/kw at 1km

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1006731	

Night:

Tower No.	ASRN	Overall Height (m)
1	1279259	
2	1279262	
3	1279265	

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DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km):

Night: 315.43

Standard RMS (mV/m/km):

Augmented RMS (mV/m/km):

Night: 331.716

Q Factor:

Night:

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	0	95.0
2	1.1910	-154.700	90.0000	118.500	0	95.0
3	0.5920	40.000	180.0000	118.500	0	95.0

\* 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	62.0	46.0	294.51

Night Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
1 156	0.61
2 0	1
3 -155	0.75

Antenna Monitor: POTOMAC AM19(204)

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)
18.5	3.57	18
198.5	5.71	7.65
248.5	4.18	4.3
298.5	4.12	15.8



## Special operating conditions or restrictions:

- 1 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.
- 2 Direction to Monitor Points:

Direction of 18.5° true North. Start from the transmitter on road #1235. Proceed South 0.3 mile to road 1192 (old US #64). Turn left on 64, proceed 0.2 mile to County Road 1231. Turn left and proceed 0.25 mile to County road 1237. Turn right and proceed 0.85 mile to County road 1242. Turn left and proceed 1.55 miles to County road 1454. Turn right and proceed 0.55 mile to dirt County Lane on right side (East) of road. Turn in lane and proceed 0.1 mile to the Monitor Point, left (North) side of road at stake painted International orange.

Direction of 198.5° true North. Start from Transmitter on road #1235. Proceed South 0.3 mile to County road 1192 (old US #64). Turn left, proceed 0.55 mile to Cloverleaf leading on to US 29/185 By-pass. Turn South on US 29/185 and proceed 3.25 miles to exit on right. Turn right and proceed 0.09 mile to overpass at road 1222, continue to end of road 0.14 miles. Proceed to County road 1228, turn right and proceed 0.12 mile to county road 1225. Turn right proceed 0.35 mile to end of pavement. Turn left on unmarked dirt road. Proceed 0.15 mile to mailbox marked VERLIE MORRIS at farm entrance lane. Monitor point is approximately 175 feet into this lane SE edge of road marked by iron stake painted International orange.
- 3 Direction to Monitor Points

Direction of 248.5° true North. Start from transmitter on road number 1235, proceed South 0.3 miles to County road 1192 (old US 64). Turn right, proceed 1.8 miles to Helmstetler road (county road 1205). Turn left, proceed 2.3 miles to county road 1208. Turn right and proceed 0.12 mile to first house on right. Monitor point is in SE corner of yard marked with iron stake painted International orange.

Direction of 298.5° true North. Start from Transmitter on road number 1235, proceed South 0.3 mile to county road 1192 (old US 64). Turn right (West) and proceed 3.08 mile to N.C. road 150. Turn right and proceed 0.45 mile to a farm lane on right side of road between large evergreens. Turn right and proceed 50 feet from entrance into farm lane. A lone tree is located in the open field (150 feet from lane). Monitor point is 10 feet (East) of the tree.
- 4 Daytime ground system consists of 121 equally spaced buried copper radials 56.4 meters in length plus 121 interspersed radials 15.24 meters in length.
- 5 Night ground system consists of 120 equally spaced, buried, copper radials about the base of each tower, each 53.12 meters in length except where terminated by property boundaries or where intersecting radials are shortened and bonded to a transverse copper strap midway between adjacent towers. Plus a copper ground screen 7.31 meters square, about the base of each tower.

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