



United States of America
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

Authorizing Official:

Son Nguyen

Son Nguyen
 Supervisory Engineer
 Audio Division
 Media Bureau

Official Mailing Address:

WINCHESTER RADIO BROADCASTERS, LLC
 161 FILES CHAPEL DRIVE
 WINCHESTER VA 22603

Grant Date: **MAR 29 2019**

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

Facility Id: 4668

Call Sign: WXVA

License File Number: BZ-20180529ACP

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	5:15 PM	Jul.	5:00 AM	7:45 PM
Feb.	7:00 AM	5:45 PM	Aug.	5:30 AM	7:15 PM
Mar.	6:30 AM	6:15 PM	Sep.	6:00 AM	6:30 PM
Apr.	5:45 AM	6:45 PM	Oct.	6:15 AM	5:30 PM
May	5:00 AM	7:15 PM	Nov.	7:00 AM	5:00 PM
Jun.	4:45 AM	7:45 PM	Dec.	7:30 AM	4:45 PM

Callsign: WXVA

License No.: BZ-20180529ACP

Name of Licensee: WINCHESTER RADIO BROADCASTERS, LLC

Station Location: WINCHESTER, VA

Frequency (kHz): 610

Station Class: B

Antenna Coordinates:

Day

Latitude: N 39 Deg 07 Min 26 Sec

Longitude: W 78 Deg 12 Min 44 Sec

Night

Latitude: N 39 Deg 11 Min 53 Sec

Longitude: W 78 Deg 13 Min 13 Sec

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

Nominal Power (kW): Day: 0.38 Night: 0.50

Antenna Input Power (kW): Day: 0.38 Night: 0.54

Antenna Mode: Day: ND Night: DA

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

Current (amperes): Day: 10.6 Night: 3.29

Resistance (ohms): Day: 3.41 Night: 50

Non-Directional Antenna: Day

Radiator Height: 78.2 meters; 57.3 deg

Theoretical Efficiency: 284.2 mV/m/kw at 1km

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1025561	

Night:

Tower No.	ASRN	Overall Height (m)
1	1053225	
2	1053226	
3	1053227	
4	1053228	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Night: 225.95

Standard RMS (mV/m/km):

Augmented RMS (mV/m/km): Night: 247

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	TL/S
2	0.8500	-176.000	120.0000	327.900	0	TL/S
3	0.8500	-155.000	282.0000	174.600	0	TL/S
4	0.7230	29.000	120.0000	327.900	1	TL/S

* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Top-Loaded/Sectionalized Tower Parameters: (See 47 CFR 73.160)

Tower No.	A	B	C	D
1	67.0	38.38	.00	.00
2	67.0	38.38	.00	.00
3	67.0	38.38	.00	.00
4	67.0	38.38	.00	.00

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
1	60.0	16.0	42.65
2	68.0	16.0	49.60
3	80.0	24.0	41.84
4	93.0	26.0	151.23
5	125.0	55.0	381.04
6	152.5	55.0	248.16
7	180.0	55.0	170.24
8	219.5	19.0	136.79
9	236.0	33.0	64.37
10	255.0	20.0	107.83
11	265.0	10.0	67.59
12	270.0	10.0	64.37
13	285.0	30.0	233.35
14	318.5	67.0	421.49

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
15	358.0	78.0	307.66

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	0	1
2	-154	0.082
3	-176	0.082
4	30	0.69

Antenna Monitor: DELTA ELECTRONICS AMM-1

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)
60	4.19	4.5
68	4.51	9.3
236	3.14	16.2
255	4.8	11.7

Special operating conditions or restrictions:

- 1 Ground system consists of 120 equally spaced, buried, copper radials about the base of each tower, each 122.5 meters in length. (Daytime Site)
Ground system consists of 120 equally spaced buried copper radials 400' long or to bonding strap plus a 48' expanded copper ground screen at the base of each tower. (Nighttime Site)
- 2 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.
- 3 Licensee shall be responsible for satisfying all reasonable complaints of blanketing interference within the 1 V/m contour as required by Section 73.88 of the Commission's rules.

Special operating conditions or restrictions:

4 DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of 60° True North: From transmitter road, proceed east on U.S. Route 50 approximately 1.4 miles to State Route 37 (Winchester By-pass). Turn left and proceed north on State Route 37 1.5 miles to U.S. Route 522 exit. Turn left on U.S. 522 and proceed west 0.25 miles to Apple Pie Road. Turn right and proceed 0.6 mile to monitoring point which is located on the West side of Apple pie Road. Distance from antenna is 4.19 km (2.6 miles). The field intensity measured at this point should not exceed 4.5 mV/m.

Direction of 68° True North: From transmitter road, proceed east on U.S. Route 50 approximately 1.4 miles to State Route 37 (Winchester By-pass). Turn left and proceed north on State Route 37 1.5 miles to U.S. Route 522 exit. Turn left on U.S. 522 and proceed west 0.25 miles to Apple Pie Road. Turn right and proceed east 0.3 mile. Continue east on Spring Valley Road 0.4 mile to monitoring point which is located on the south side of road east of stone markers. Distance from antenna is 4.51 km (2.8 miles). The field intensity measured at this point should not exceed 9.3 mV/m.

Direction of 236° True North: From transmitter road, proceed west on U.S. Route 50 approximately 0.35 miles to Rural Road to South. Turn left and proceed 0.2 mile to State Route 803. Turn right on State Route 803 and proceed west 0.5 mile to State Route 620. Turn left and proceed 0.8 mile to monitoring point which is located on the west side of road opposite fruit storage shed. Distance from antenna is 3.14 km (1.95 miles). The field intensity measured at this point should not exceed 16.2 mV/m.

Direction of 255° True North: From transmitter road, proceed west on U.S. Route 50 approximately 1.4 miles to State Route 608 (Wardensville Road). Turn left and proceed 0.2 mile to State Route 616. Turn right on State Route 616 and proceed 1.7 miles to monitoring point which is in the middle of the road between a brown frame house and new brick house construction. Distance from antenna is 4.80 km (2.98 miles). The field intensity measured at this point should not exceed 11.7 mV/m.

*** END OF AUTHORIZATION ***