

Engineering Report
Request for Special Temporary Authority Extension
WXVA, Winchester, VA
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September 2021

Abstract

This report is in support of an application for extension of an Engineering STA for WXVA, Winchester, VA to remain on the air during night hours to continue service to the public.

Since acquiring WXVA, Winchester Radio Broadcasters, LLC (WRB) restored operation of the station by establishing a new transmitter and studio location, and constructed a day facility to utilize an available transmitter site. Finding a suitable site for a night directional antenna has been troublesome.

This request is to utilize the licensed daytime antenna at reduced power for operation during night hours to maintain radio service to Winchester from local sunset through 6:00 AM local time.

Extenuating Circumstances

The licensee is consolidating operations to become profitable and undertake a search for permanent night facilities for the station. WRB has continued its search for alternate night transmitter sites or duplexing opportunities. WRB has been unable to locate an alternative site from which WXVA can meet all the allocation requirements for 610 kHz, and the space for a directional antenna at that low frequency.

While WRB searches for a new site, it is essential that WXVA be permitted to operate during night hours. The licensee recognizes that this STA is issued on the condition that it does not cause interference to other stations, and that the licensee will decrease power or make other adjustments to eliminate such objectionable interference if it occurs. To date, there have been no complaints of interference from the STA night operations of WXVA.

Application

This request is to continue to operate WXVA at reduced power during night hours until 6 AM utilizing the omnidirectional antenna from the licensed daytime antenna which is located at a different site than the night antenna described in the WXVA license.

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WXVA is licensed at 500 Watts, DA-2 and this request is to extend the STA to operate at 125 Watts ND-N ($\frac{1}{4}$ of the licensed power) to maintain service to Winchester. The station will use the direct method of power measurement, as the day antenna is licensed with a known operating impedance

Operations between 6AM and Local Sunrise

WXVA is a class B station on a regional channel, authorized full power Pre-Sunrise Authorization. WXVA will use its Pre-Sunrise Authorization for operation for those hours.

Engineer's Statement

This is to certify that this report has been prepared by myself. It is correct and accurate of my own knowledge, except where stated otherwise, and where that is so, the information is correct to the best of my knowledge and belief.

I further certify that I am a Licensed Professional Engineer in the State of New Jersey, and the Commonwealth of Pennsylvania with a BSEE degree from the Newark College of Engineering of NJIT, and that I am, and have been for over forty years, regularly engaged in the practice of radio engineering with the firm of Radiotechniques Engineering, LLC, with offices at 402 Tenth Avenue, Haddon Heights, NJ. I am a member of the AFCCE, Senior member of the IEEE and SBE and hold a FCC General Radiotelephone Operator License. My qualifications are a matter of record with the FCC.



15 September 2021

Edward A. Schober, PE