

TECHNICAL STATEMENT AND EXPEDITED PROCESSING REQUESTED  
W250CU WHITE SULPHUR SPRINGS, WEST VIRGINIA 250D  
RADIO GREENBRIER, LLC  
FCC FORM 349  
DECEMBER 2021

This Technical Statement is in support of a minor change application, FCC form 349, being filed on behalf of Radio Greenbrier, LLC in regards to W250CU for White Sulphur Springs, West Virginia on channel 250D with facility ID #203187. As the current CP expires on December 8, 2021, expedited processing is respectfully requested by Radio Greenbrier, LLC.

Radio Greenbrier, LLC is proposing to use the existing WRON(FM) site at the coordinates N. 37°-47'-54.6", W. 80°-30'-55.5", NAD 83 and rebroadcasting WSLW(AM) White Sulphur Springs, West Virginia, facility ID #59678. The proposed operation will use a Shively 6813 nondirectional antenna with an Effective Radiated Power of 1 Watt. The antenna will be mounted at 13 meters Above Ground Level, with a Center of Radiation at 898 meters Above Mean Sea Level.

Figure 1 shows a channel interference study conducted from the proposed site for W250CU. The only pertinent records for further study are:

- 1) WVBD Fayetteville, West Virginia 250A License
- 2) W247BZ Lewisburg, West Virginia 247D License

Figure 2 is a predicted coverage map showing the 40 dBμ interference contour F(50,10) of the proposed operation and the 60 dBμ protected contour F(50,50) of WVBD Fayetteville, West Virginia on channel 250A. As can be seen, there is no prohibited overlap between these two contours.

The proposed site is located within the protected contours of 3<sup>rd</sup> adjacent station W247BZ Lewisburg, West Virginia on channel 247D. At the proposed transmitter site, the predicted F(50-50) field strength of W247BZ is 105.2 dBμ . The worst-case predicted

interfering contour F(50-10) generated by the proposed facility to W247BZ is an additional 40 dB $\mu$  above the signal strength at the site from that facility. The interfering contour F(50-10) to W247BZ would be 145.2 dB $\mu$ . The 104.9 dB $\mu$  interference contour F(50-10) travels a maximum distance of 0.4 meters from the transmitting antenna. The antenna is 13 meters above ground level so the interference zone will still be more than 12 meters above the ground. No population will be affected. Therefore, the proposed facility will be in compliance with C.F.R. 74.1204(d) of the Commission's rules based on the fact that there is no population within the area of predicted interference.

Figure 3 shows the overlap between the 60 dB $\mu$  contours of the proposed facility, in red, and the original tech box, in blue, seeking to be modified by this application.

The proposed operation will operate as a fill-in translator for WSLW(AM), in White Sulphur Springs, West Virginia, facility ID #59678. Figure 4 shows that the 60 dB $\mu$  contour of the proposed operation is entirely within 25 miles of the WSLW(AM) site. (Note that the Tech Box is the same as the current CP, except it used a nondirectional antenna instead of the directional antenna in the CP.)

The proposed facility is 109.7 km from the National Radio Quiet Zone in West Virginia, thus not requiring coordination. However, we will inform them about the new application and remind them that the old CP was within 100 km.

It was concluded that the proposed operation of the new translator in White Sulphur Springs, West Virginia on 250D will not cause any harmful interference to any existing stations and will be in full compliance with the Commission's rules. Let it be noted that should any actual real world interference occur, the applicant acknowledges that it will promptly suspend operation of this translator in accordance with 47 C.F.R. § 74.1203.