

VIRGINIA TECH FOUNDATION, INC.

W275CD

VINTON, VIRGINIA

ENGINEERING NARRATIVE

The purpose of this application is to move the authorized W275CD transmitter to a new location.

The proposed tower is 19 meters high, and it will be shared with W253BE. No interaction with W253BE is anticipated, however, if any problems arise, the applicant will furnish and install filters and take whatever other measures might be required to correct the problem.

There will be no change in the tower height or the tower guying arrangements, therefore, a NEPA study should not be required, and one is not being initiated.

A non-directional antenna is proposed with a power of 0.048 kilowatt to protect the licensed facility of WJJX, channel 274B, Appomattox, Virginia.

The proposed site is inside the 60 dBu contour of second-adjacent channel station WBZS, channel 273A, Shawsville, Virginia. The WBZS signal strength at the proposed site is 67.0 dBu. With an ERP of 0.048 kilowatt, the proposed W275CD interfering contour (107 dBu) extends 218 meters. There are no houses or roads within 218 meters (except for the access road to the site). See the attached aerial photograph.

In view of the fact there is no population within the interference area, either in buildings or on public roads, a waiver of §74.1204(a) of this contour overlap with WBZS is requested in accordance with the Living Way Ministries, Inc. decision.

The power density at two meters above ground level has been computed with FCC program FMMODEL. (See the attached graph.) The maximum power density two meters above ground is 7.5 microwatts per square centimeter. This is 3.75 percent of the maximum recommended value for public spaces of 200 microwatts. Being less than 5 percent, this proposal should be exempt from RFR processing under §1.1307(b)(3).