

## **Engineering Exhibit**

### **WRVA-FM , FID 74125 Rocky Mount, North Carolina**

#### **Radio Frequency Radiation Study and Statement**

The proposed facilities were evaluated in terms of potential radio frequency radiation exposure at ground level in accordance with OET Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radio frequency Radiation."

The broadcast antenna is constructed on FCC registered tower 1004438. The proposed antenna system is an ERI, SHPX-1AE, 1-bay, single wave spaced antenna, mounted with its center of radiation 457 meters above ground level, and will operate with an effective radiated power of 13 Kilowatts in both the horizontal and vertical planes. At 2 meters above ground, at 455 meters from the base of the tower, this proposal will contribute worst case, .9 microwatts per square centimeter, or .09 percent of the allowable ANSI limit for controlled exposure, and 0.45 percent of the allowable limit for uncontrolled exposure. This figure is less than 5% of the applicable FCC exposure limit at all locations extending out from the base of the tower. Section 1.1307(b)(3) excludes applications when the calculated level is predicted to be less than 5% of the applicable exposure limit. It is therefore believed that this proposal is in compliance with OET Bulletin Number 65 as required by the Federal Communications Commission.

Further, the applicant will see that signs are posted in the vicinity of the tower, warning of potential radio frequency hazards at the site. The site itself is restricted from public access. The applicant will cooperate with other users of the tower to reduce power of the facility, or discontinue operation, as necessary to limit human exposure to levels less than specified by the Federal Communications Commission should anyone be required to climb the tower for maintenance or inspection.