



County Borders State Borders

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 evaluation was performed utilizing the FCC on-line FM Model Calculator.

The proposed system is to be a shared time auxiliary antenna for WHFX(FM) and WQGA(FM), using an EPA type 3, 2-bay, full-wave spaced "Rototiller" antenna mounted with its center of radiation 99 meters above ground level and WHFX will operate with an effective radiated power of 8.0 kilowatts in both the horizontal and vertical polarizations. At 2 meters above ground, at 64.5 meters from the base of the tower, this proposal will contribute worse case, a power density of 8.16 microwatts per square centimeter, or 0.82 percent of the allowable ANSI limit for controlled exposure, and 4.08 percent of the allowable limit for uncontrolled exposure. This figure is less than 5% of the applicable FCC 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 his proposal is in compliance with OET Bulletin Number 65 as required by the FCC.

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 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.