



County Borders State Borders

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

The proposed shared 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 applicant proposes to operate a shared/combined auxiliary with an effective radiated power of 37 Kilowatts in both the horizontal and vertical planes for each applicant station. The applicant proposes to combine WKLS(FM) and WUBL(FM) into the antenna for which another licensee has an auxiliary antenna construction permit, BXPB20090812ACQ for station WWWQ(FM). The proposed antenna system is an EPA type 3, 12-bay, half wave spaced, "Roto-tiller" antenna, mounted with its center of radiation 303 meters above ground level, The permitted effective radiated power for the WWWQ(FM) auxiliary is 48 Kilowatts in both the horizontal and vertical planes, thus, when summed with the proposed 37 Kilowatts for both WKLS and WUBL, the total effective radiated power of 122 Kilowatts in both the horizontal and vertical planes was utilized to evaluate the total RF exposure level attributable to the three FM stations. Utilizing the microcomputer program "FM Model", it was determined that at 2 meters above ground, at 3,573 meters distance from the base of the tower, this combined proposed FM stations auxiliary facility will contribute worst case, 0.26 microwatts per square centimeter, or 0.026 percent of the allowable ANSI limit for controlled exposure, and 0.13 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.