



State Borders

## Radio Frequency Radiation Study and Statement

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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 proposed antenna system is an EPA type 3, 2-bay, full-wave spaced "Rototiller" antenna mounted with its center of radiation 79 meters above ground level, and will operate with an effective radiated power of 9.2 Kilowatts in both the horizontal and vertical planes. The proposed antenna system will be used for auxiliary purposes only. At 2 meters above ground, at 52 meters from the base of the tower, this proposal will contribute worst case, 14.9 microwatts per square centimeter, or 1.49 percent of the allowable ANSI limit for controlled exposure, and 7.45 percent of the allowable limit for uncontrolled exposure. The proposed antenna will be located on the same tower as the main transmitting antenna of station WSRZ-FM (FID#48673), licensed to Coral Cove, FL and operating with an effective radiated power of 47 Kilowatts in both the horizontal and vertical planes. The WSRZ-FM main antenna is a Dielectric model DCRM8C5P, 8-bay, half-wave spaced antenna mounted with its center of radiation 154 meters above ground level. At 2 meters above ground, at 376 meters from the base of the tower, the WSRZ-FM main facility contributes worst case, 0.84 microwatts per square centimeter, or 0.08 percent of the allowable ANSI limit for controlled exposure, and 0.42 percent of the allowable limit for uncontrolled exposure. In addition, WSRZ-FM has been granted a Construction Permit (BXPB-20090617AAI) for an auxiliary antenna on the same tower. The WSRZ-FM auxiliary antenna will be an ERI model SHPX-2AE, 2-bay, full-wave spaced "Rototiller" antenna mounted with its center of radiation at 85 meters above ground and will operate with an effective radiated power of 21.5 Kilowatts in both the horizontal and vertical planes. At 2 meters above ground, at 56 meters from the base of the tower, the WSRZ-FM auxiliary facility will contribute worst case, 29.9 microwatts per square centimeter, or 2.99 percent of the allowable ANSI limit for controlled exposure, and 14.95 percent of the allowable limit for uncontrolled exposure. Thus, the worst case exposure will occur with WLTZ-FM and WSRZ-FM both operating from the auxiliary antennas. It should be noted, however, that even under these conditions, the sum of the exposure contributions of the two auxiliary antennas remains far below the allowable ANSI limits for both controlled and uncontrolled exposure. It is therefore believed that this proposal is in compliance with OET Bulletin No. 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 operations, 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.