

Engineering Exhibit
WSRS Auxiliary Antenna
Facility ID 35225
Minor Change Application
December 28, 2005

By this application it is sought to modify the auxiliary facility of WSRS(FM) to specify a new antenna height and power at its presently licensed location. This new antenna height is 3.4 meters above the location presently authorized in BMLH-19890214KF with power increased to 20 kW. The WSRS(FM) auxiliary antenna is located upon a tower described by antenna structure registration number 1007889. Figure 1 is a map demonstrating the proposed height and power does not produce an auxiliary 60 dbu contour that exceeds the licensed main antenna.

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, 4- bay, 1.0 wave spaced "Roto Tiller" style antenna, mounted with its center of radiation 52.4 meters above ground level. This proposal will operate with an effective radiated power of 20 kilowatts in both the horizontal and vertical planes. At 2 meters above ground, at 20 meters from the base of the tower, this proposal will contribute worst case 45.5 microwatts per square centimeter, or 4.55 percent of the allowable ANSI limit for controlled exposure, and 22.5 percent of the allowable limit for uncontrolled exposure. While it is believed that this proposal is in compliance with OET Bulletin Number 65 as required by the Federal Communications Commission this is a shared antenna location with 2 other broadcasters. The applicant will perform post constructions measurements to determine compliance and should such measurements reveal any areas of over-exposure, the applicant will properly address those areas.

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.

60 dbu Contours

