

Comprehensive Engineering Exhibit
WMXW (FM) Facility ID 19624
Minor Change Application
January 29, 2007

By this application it is sought to modify the facility of WMXW (FM) to specify a new antenna height and power at a new location. This is the location specified in BSTA-20070103ABM under which the station is presently operating.

The proposed WMXW (FM) antenna is to be non-directional and will be located 212 meters above ground level upon a tower described by antenna structure registration number 1236974. This existing tower, constructed in 2003, is located 0.77 km from AM station WNBF, and 3.35 km from AM station WYOS. As the antenna construction associated with this application will not cause a material change in the electrical height or cross sectional area of this existing tower (1236974), it is anticipated that no adverse affect will be caused to either AM station.

From this location WMXW (FM) is fully spaced as a Class A facility in accordance with Section 73.207 to all known facilities, applications and allocations. The proposed facility is at a Height Above Average Terrain (HAAT) 225 meters greater than maximum for Class A, the web tool "FMpower" was utilized to determine the equivalent power of 0.520 kW

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 a Shively Model 6813, 2- bay, 1.0 wave spaced antenna, mounted with its center of radiation 212 meters above ground level. This proposal will operate with an effective radiated power of 0.520 kilowatts in both the horizontal and vertical planes. At 2 meters above ground, at 134 meters from the base of the tower, this proposal will contribute worst case 0.04 microwatts per square centimeter, or 0.004 percent of the allowable ANSI limit for controlled exposure, and 0.02 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 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.