

**WMRZ Fac ID 88542**

This action is compliant with 73.1690(c) as it is for a change in transmitter power due to installation of a lower loss transmission line, and a replacement of the omnidirectional antenna with one of the same number of antenna bays, with the height of the antenna radiation center not more than 2 meters above or 4 meters below the authorized values.

Replacement Antenna Info:

Manufacturer: ERI, Model: "LPX-6C" -- 6 bays @ 1.00  $\lambda$  bay spacing. RCAGL: 319.882' / 97.500m

New TPO: 8.400 kW

**RFR Statement**

The proposed broadcast 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 antenna system for WMRZ is an ERI LPX-6C, 6-bay, full-wave spaced antenna, mounted with its center of radiation 97.5 meters above ground level, and will operate with a maximum effective radiated power of 25 kilowatts in both the horizontal and vertical planes. Utilizing the FCC website tool FM-model set for a type 3 antenna, it is calculated this proposal will contribute worst case, 12.5 microwatts per square centimeter, or 1.25 percent of the allowable ANSI limit for controlled exposure, and 6.25 percent of the allowable limit for uncontrolled exposure. 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 warning 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.