

Human Exposure to Radiofrequency Electromagnetic Field And Section 106 Compliance (Environmental)

Zimmer Radio of Mid-Missouri, Inc. ("Zimmer") is the licensee of KZWV, Facility ID #165951, Channel 270C2, Eldon, MO. Zimmer herein proposes a minor change application FCC Form 301 to construct an auxiliary site for KZWV.

The transmitting site will be an existing tower 121.9 meters (400 ft.) overall height which is registered with FCC Antenna Structure Registration ("ASR") Number 1064409. The coordinates of the proposed auxiliary site are located at 38° 09' 23.9" North, 92° 36' 49.3" West (NAD 27). The proposed transmitting antenna is a side mounted Bext Model TFC2K two bay full wave antenna with a center of radiation of 391.7 meters AMSL and 111.3 meters above ground level.

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission's OET Bulletin Number 65. The Bext Model TFC2K antenna is not included in the Commission's FM Model for Windows program. Therefore the FCC FM Model Program shows a worst case scenario by using the Phelps-Dodge "Ring-Stub" or dipole (EPA) antenna. Using this antenna, the "worst case" predicted power density for KZWV near the tower at two meters above ground level attributable to the proposed facility is $19.980 \mu\text{W}/\text{cm}^2$ at 27 meters, which is 9.99 percent of the general population/uncontrolled maximum permitted exposure limit and 2.00 percent of the limit for "controlled" environments.

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.