

MINOR CHANGE APPLICATION
TO CORRECT COORDINATES
MEADE COUNTY COMMUNICATIONS, INC.
WMMG AM RADIO STATION
1140 kHz - 0.25 kW - NDD
BRANDENBURG, KENTUCKY
November 2007

EXHIBIT #3

A study has been made to determine whether this proposal is in compliance with 47 C.F.R. §1.1307 of the Commission's rules and with OET Bulletin #65, dated August 1997 ("Bulletin"), regarding human exposure to radio frequency radiation in the vicinity of broadcast towers. This study considers all nearby contributing stations, specifically WMMG-FM¹ and utilizes the appropriate formulas contained in the OET Bulletin.²

At the WMMG frequency of 1140 kHz, the tower is 125.3° (0.348 λ) in electrical height. The tower is fenced at a minimum distance of 1.0 meter (3.3 feet) from the radiating structure. Based on the guidelines of the OET bulletin, at the WMMG licensed power of 0.25 kilowatt, calculations indicate that 97.9 V/m and 0.248 A/m will be present at the fence perimeter. Since the frequency is below 1340 kHz, the electric field limits and magnetic field limits are the same for both controlled and uncontrolled environments. This represents 15.9 % of the electric field limit of 614 V/m and 15.2% of the magnetic field limit of 1.63 A/m. In this case, the electric field contribution of 15.9% is considered as the worst case contribution.

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- 1) The relocation of WMMG-FM is being reviewed.
 - 2) The contributions of the FM station were calculated with the FMModel program. The EPA single bay dipole antenna was used for calculations unless otherwise noted.

The WMMG-FM antenna system is mounted with its center of radiation 86.9 meters (285 feet) above the ground at the tower location and operates with an effective radiated power of 3.4 kilowatts in the horizontal and vertical planes (circularly polarized). At 2.0 meters, the height of an average person above the ground, at the base of the tower, the proposed WMMG-FM antenna system will contribute 0.019 mw/cm^2 .³ Based on exposure limitations for a controlled environment, 1.9% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, 9.5% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

Combining the contributions of WMMG and WMMG-FM, a total of 25.4% of the limit for uncontrolled environments is reached at 2.0 meters above the ground at the fence perimeter at the base of the tower. Since this level is below the 100% limit defined by the Commission, the WMMG facility is believed to be in compliance with the radio frequency radiation exposure limits as required by the Federal Communications Commission. Further, MCC will verify that warning signs have been posted at the fence perimeter warning of potential radio frequency radiation hazards at the site. In addition, MCC will reduce the power of the proposed facility or cease operation, in cooperation and coordination with other building/roof users, as necessary, to protect persons having access to the site, tower or antenna from radio frequency radiation in excess of FCC guidelines.

3) This level occurs at 20 meters out from the base of the tower and is considered worst case.