

MINOR CHANGE APPLICATION
MILLER COMMUNICATIONS, INC.
WWBD (FM) RADIO STATION
CH 239C3 - 95.7 MHZ - 25.0 KW
BAMBERG, SOUTH CAROLINA
March 2003

EXHIBIT B

Radio Frequency and Environmental Assessment

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 stations and utilizes the appropriate formulas contained in the Bulletin.

Environmental Analysis

The proposed/ existing WWBD tower does not involve the use of high intensity white lighting (strokes) in a residential neighborhood. The structure is not located in an officially designated wilderness area or wildlife preserve, nor does it threaten the existence or habitat of endangered species. The facility does not affect districts, sites, buildings, structures or objects significant in American history, architecture, archaeology, engineering or culture that are listed in the National Register of Historic Places, or are eligible for listing, nor does it affect Indian religious sites. Further, the site is not located in a floodplain and did not, to the knowledge of the applicant, require significant change in surface features (wetland fill, deforestation or water diversion) at the time of construction.

Radio Frequency Radiation Study

This radio frequency radiation study is being conducted to determine whether this proposal is in compliance with OET Bulletin Number 65, dated August 1997, regarding human exposure to radio frequency radiation in the vicinity of broadcast towers. This study considers all nearby contributing stations, specifically AM station WRIT, and utilizes the appropriate formulas contained in the OET Bulletin.³

The proposed WWBD antenna system will be mounted with its center of radiation 86 meters (282.2 feet) above the ground at the tower location and operate with an effective radiated power of 25.0 kilowatts in the horizontal and vertical planes (circularly polarized). At two meters, the height of an average person, above the ground at the base of the tower, the WWBD antenna system will contribute 0.14952 mw.⁴ Based on exposure limitations for a controlled environment, 15% of the allowable ANSI limit is reached at two meters above the ground at the base of the tower. For uncontrolled environments, 74.6% of the ANSI limit is reached at two meters above the ground at the base of the tower.

The co-located WRIT AM facility operates with a power of 1.0 kilowatt on 790 kHz and an electrical tower height of 81° (0.225λ). It is proposed to limit access to the tower base at a distance not closer than 3.0 meters. By reference to Figure 2 of OET 65-A, a tower radiating 1.0 kilowatt will deliver 100.0 V/m

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- 3) The contribution of WWBD was calculated with the FMModel program. The EPA single bay dipole antenna was used for calculations unless otherwise noted.
 - 4) This level of contribution occurs at 22 meters out from the tower and is considered worst case.

(Electric Field) or 0.342 A/m (Magnetic Field). These figures represent 16% of the Electric Field Limit of 614 V/m or 21% of the Magnetic Field Limit of 1.63 A/m. Analysis using the Magnetic Field Limit contribution of 21% is considered worst case.

Combining the contributions of WWBD and WRIT, a total of 95.6% percent of the uncontrolled environment level is reached at two meters above the base of the tower. Since this level for uncontrolled environments is below the 100% limit defined by the Commission, the proposed WWBD facility is believed to be in compliance with the radio frequency radiation exposure limits as required by the Federal Communications Commission. Further, Miller Communications, Inc. ("Miller"), will verify that warning signs have been posted in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, Miller will reduce the power of the proposed facility or cease operation, in cooperation and coordination with other tower users, as necessary, to protect persons having access to the site, tower or antenna from radio frequency radiation in excess of FCC guidelines. Based on the above factors, this proposal is categorically excluded from environmental processing pursuant to §1.1306 of the Commission's rules.