

REQUEST FOR SPECIAL TEMPORARY AUTHORITY
MILLER COMMUNICATIONS, INC.
WQKI-FM RADIO STATION
CH 275A - 102.9 MHZ - 3.7 KW
ORANGEBURG, SOUTH CAROLINA
August 2009

EXHIBIT B

Radio Frequency Assessment

This 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 and utilizes the appropriate formulas contained in the OET Bulletin.¹

The proposed WQKI-FM STA antenna system will be mounted with its center of radiation 123.46 meters (405 feet) above the ground and will operate with an effective radiated power of 3.7 kilowatts in the horizontal and vertical planes (circularly polarized). At 2.0 meters, the height of an average person, above ground level, the antenna will contribute 0.0109 mw/cm².² Based on exposure limitations for a controlled environment, 1.1% of the allowable limit is reached at 2.0 meters above the ground. For an uncontrolled environment, 5.5% of the ANSI limit is reached at the 2.0 meters above the ground at the base of the tower.

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- 1) The contributions of the FM facilities were calculated using the FM Model program. A single bay EPA dipole antenna was used for calculation purposes, unless otherwise specified.
 - 2) This level of field occurs at 33.0 meters out from the base of the tower and is considered worst case.

The proposed WGFG antenna system will be mounted with its center of radiation 138.68 meters (455 feet) above the ground and operate with an effective radiated power of 12.5 kilowatts in the horizontal and vertical planes (circularly polarized).³ At 2.0 meters, the height of an average person, above ground level, the antenna will contribute 0.0269 mw/cm².⁴ Based on exposure limitations for a controlled environment, 2.7% of the allowable limit is reached at 2.0 meters above the ground. For an uncontrolled environment, 13.5% of the ANSI limit is reached at the 2.0 meters above the ground at the base of the tower.

Combining the contributions of WQKI-FM and WGFG a total of 19% of the limit for an uncontrolled environment is reached at the base of the tower. Since this level is less than 100%, the proposed WQKI-FM STA facility is believed to be in compliance with the radio frequency radiation exposure limits as required by the Federal Communications Commission. Further, MCI will post warning signs on the roof warning of potential radio frequency radiation hazards at the site. In addition, MCI will reduce the power of the 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.

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- 3) The licensed WGFG has a center of radiation of 143.2 meters above ground and operates with 12.0 kilowatts. Its contribution is less than the proposed WGFG facility and therefore is not considered
 - 4) This level of field occurs at 37.0 meters out from the base of the tower and is considered worst case.