

MODIFY BPH-20070705ADV
MILLER COMMUNICATIONS, INC.
WWBD (FM) RADIO STATION
CH 240C2 - 95.9 MHZ - 50.0 KW
ISLE OF PALMS, SOUTH CAROLINA
May 2008

EXHIBIT B

Radio Frequency 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 contributing stations, specifically co-located WXTC AM, and utilizes the appropriate formulas contained in the OET Bulletin.¹

The proposed WWBD antenna system is to be mounted with its center of radiation 107.9 meters (354.0 feet) above the ground at the tower location and will operate with an effective radiated power of 50.0 kilowatts in the horizontal and vertical planes (circularly polarized). The WWBD antenna is to be an Electronics Research, Inc., rototiller style antenna system (FCC/EPA Type #3), a single bay was used for worst case. At 2.0 meters above the ground at the base of the tower, the height of an average person, the WWBD antenna system will contribute 0.0663 mw/cm².² Based on exposure limitations for a controlled environment, 6.6%

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- 1) The contributions of the FM stations were calculated with the FMModel program. The EPA single bay dipole antenna was used for calculations unless otherwise noted.
 - 2) This level of field occurs at 106.0 meters out from the base of the tower and is considered worst case.

of the allowable limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, 33.2% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

The WXTC AM daytime radiator on which the WWBD antenna is to be installed is, electrically, 180.1° in height at 1390 kHz and operates with a power of 5.0 kilowatts.³ No one can get closer than 2.0 meters from the tower.⁴ By reference to Figure 2 of OET 65-A, the WXTC tower will deliver 391.5 V/m (Electric Field) or 0.208 A/m (Magnetic Field). Since WXTC operates on a frequency above 1340 kHz, the contribution levels for controlled and uncontrolled environments are different. For the controlled environments, the electrical field contribution is 63.8% and the magnetic field contribution is 12.8%. For the uncontrolled environments, the electrical field contribution is 66.0% and the magnetic field contribution is 13.2%. Since the electrical field contribution in the uncontrolled environment is greatest, it will be used as a worst case contribution.

Combining the contributions of WWBD and WXTC, a total of 99.2% of the limit for uncontrolled environments is reached at 2.0 meters from the base of the tower. Since the contribution level is less than the limit for uncontrolled environments, it is believed that the

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- 3) WXTC operates at night with a three tower directional antenna system. The WXTC array is located on the edge of a marsh. Access to any of the towers a walkway that goes from the land to the closest structure, and then on to the remaining towers. No one can get closer than 100 feet from the tower closest to land. Since the tall tower is the only one that will have another contributing RF source, it was the only tower reviewed for RF compliance.
 - 4) Access to the site is via a locked walkway. The public and station staff are more than 100 feet from the closest AM radiating element when the system is energized.

WWBD facility is in compliance with the radio frequency radiation exposure limits as required by the Federal Communications Commission. MCI will also insure that warning signs have been posted in the vicinity of the tower 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.