

**REQUEST FOR SPECIAL TEMPORARY AUTHORITY**  
**FAMILY WORSHIP CENTER CHURCH, INC.**  
**WJNS-FM RADIO STATION**  
**CH 221A - 92.1 MHZ - 4.7 KW**  
**BENTONIA, MISSISSIPPI**  
**April 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.<sup>1</sup>

The proposed WJNS-FM STA antenna system will be mounted with its center of radiation 73.1 meters (239.8 feet) above the ground and will operate with an effective radiated power of 4.7 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 0.0373 mw/cm<sup>2</sup>.<sup>2</sup> Based on exposure limitations for a controlled environment, 3.7% of the allowable limit is reached at 2.0 meters above the ground. For uncontrolled environments, 18.7% 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 19.0 meters out from the base of the tower and is considered worst case.

Since both the controlled and uncontrolled limits are less than 100%, the proposed WJNS-FM facility is believed to be in compliance with the radio frequency radiation exposure limits as required by the Federal Communications Commission. Further, FWCC will post warning signs on the roof warning of potential radio frequency radiation hazards at the site. In addition, FWCC 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.