

**REQUEST FOR**  
**SPECIAL TEMPORARY AUTHORIZATION**  
**IW LIMITED LIABILITY COMPANY**  
**WMJC (FM) RADIO STATION**  
**CH 232A - 94.3 MHZ - 3.0 KW**  
**SMITHTOWN, NEW YORK**  
**April 2007**

**EXHIBIT #2**

**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 stations and utilizes the appropriate formulas contained in the Bulletin.<sup>1</sup>

The WMJC STA antenna system is to be mounted with its center of radiation 45.7 meters (150.0 feet) above the ground at the existing tower location and will operate with an effective radiated power of 3.0 kilowatts in the horizontal and vertical planes (circularly polarized). At 2.0 meters above the ground at the base of the tower, the height of an average person, the WMJC STA antenna system will contribute 0.0632 mw/cm<sup>2</sup>.<sup>2</sup> Based on exposure limitations for a controlled environment, 6.3% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, 31.6% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

- 
- 1) The FMModel program was used to calculate the FM stations' contributions. The EPA single bay dipole was used unless otherwise stated.
  - 2) This level of field occurs at 12.0 meters out from the base of the tower and is considered worst case.

Since this level for uncontrolled environments is well below the 100% limit defined by the Commission, the proposed WMJC STA facility is believed to be in compliance with the radio frequency radiation exposure limits, as required by the Federal Communications Commission. Further, IW has posted warning signs in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, IW will reduce the power of the WMJC STA 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.