

**MINOR CHANGE APPLICATION**  
**TAMA RADIO LICENSES**  
**OF SAVANNAH, GA, INC.**  
**WSSJ (FM) RADIO STATION**  
**CH 261C1 - 100.1 MHZ - 100.0 KW**  
**RINCON, GEORGIA**  
**March 2006**

**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 the co-located FM station WLFS, and utilizes the appropriate formulas contained in the OET Bulletin.<sup>5</sup>

The proposed WSSJ antenna system will be mounted with its center of radiation 137.2 meters (450.1 feet) above the ground at the tower location and will operate with an effective radiated power of 100.0 kilowatts in the horizontal and vertical planes (circularly polarized). The proposed WSSJ antenna will be an Electronics Research, Inc., rototiller style system (FCC/EPA Type #3). At 2.0 meters, the height of an average person above the ground at the base of the tower, the WSSJ antenna system will contribute 0.0813 mw/cm<sup>2</sup>.<sup>6</sup> Based on exposure limitations for a controlled environment, 8.1% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, 40.7% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

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- 5) 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.
- 6) This level of contribution occurs at 135.0 meters out from the tower and is considered worst case.

The WLFS antenna system will be mounted with its center of radiation 99.0 meters (324.8 feet) above the ground at the tower location and operate with an effective radiated power of 23.5 kilowatts in the horizontal and vertical planes (circularly polarized). At 2.0 meters, the height of an average person, above the ground at the base of the tower the WLFS antenna system will contribute  $0.1004 \text{ mw/cm}^2$ .<sup>7</sup> Based on exposure limitations for a controlled environment, 10.0% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, 50.2% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

Combining the contributions of WSSJ and WLFS, a total of 90.9% of the uncontrolled limit is reached at 2.0 meters above the ground at the base of the tower. Since this level for uncontrolled environments is below the 100% limit defined by the Commission, the proposed WSSJ facility is believed to be in compliance with the radio frequency radiation exposure limits as required by the Federal Communications Commission. Further, Tama will post warning signs in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, Tama 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.

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7) This level of contribution occurs at 26.0 meters out from the tower and is considered worst case.