

MODIFY BPH-20030702AAE
TAMA RADIO LICENSES OF SAVANNAH, GA, INC.
WMZD RADIO STATION
CH 261C2 - 100.1 MHZ - 50.0 KW
RINCON, GEORGIA
June 2005

EXHIBIT A

Radio Frequency Radiation Study

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 stations and utilizes the appropriate formulas contained in the Bulletin. This study considers all nearby contributing stations, specifically the nearby WTYB¹, and utilizes the appropriate formulas contained in the OET Bulletin.²

The proposed WMZD antenna system will be mounted with its center of radiation 139.95 meters (459.1 feet) above the ground at the tower location and operate with an effective radiated power of 50.0 kilowatts in the horizontal and vertical planes (circularly polarized). At two meters, the height of an average person above the ground at the base of the tower, the WMZD antenna system will contribute 0.1056 mw.³ Based on exposure limitations for a controlled environment, 10.6% of the allowable limit is reached at two meters above the ground at the base of the tower. For uncontrolled environments, 52.8% of the limit is reached at two meters above the ground at the base of the tower.

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- 1) The WTYB antenna is located on a tower 200 meters from the proposed WMZD site. As such, it is considered co-located with WMZD for the purposes of the radio frequency radiation analysis.
 - 2) The contributions of the FM facilities were calculated using the FMModel program. The EPA dipole antenna was used for calculation purposes.
 - 3) This level of field occurs at 37.0 meters out from the base of the tower and is considered worst case.

The authorized WTYB antenna system is mounted with its center of radiation 90.0 meters (295.3 feet) above the ground at the tower location (considered co-located for this analysis) and operates with an effective radiated power of 14.0 kilowatts in the horizontal and vertical planes (circularly polarized). At two meters, the height of an average person above the ground at the base of the tower, the WTYB antenna system will contribute 0.0727 mw.⁴ Based on exposure limitations for a controlled environment, 7.3% of the allowable limit is reached at two meters above the ground at the base of the tower. For uncontrolled environments, 36.4% of the limit is reached at two meters above the ground at the base of the tower.

Combining the contributions of WMZD and WTYB, a total of 89.2% of the uncontrolled limit is reached two meters above the ground at the base of the tower. Since this level is below the 100% limit defined by the Commission, the proposed WMZD facility is believed to be in compliance with the radio frequency radiation exposure limits as required by the Federal Communications Commission. Further, Tama will ensure warning signs are posted 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. Based on the above factors, this proposal is categorically excluded from environmental processing pursuant to §1.1306 of the Commission's rules.

4) This level of field occurs at 24.0 meters out from the base of the tower and is considered worst case.