

**MINOR CHANGE APPLICATION**  
**DEBRA SEARS GRAHAM**  
**W248AH FM TRANSLATOR STATION**  
**CH 248D - 97.5 MHZ - 0.25 KW**  
**BRUNSWICK, GEORGIA**  
**July 2016**

**EXHIBIT C**

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 considered all nearby contributing stations the appropriate formulas contained in the OET Bulletin.<sup>1</sup>

The proposed W248AH antenna system will be mounted with its center of radiation 40.0 meters (131.2 feet) above the ground at the tower location and operate with an effective radiated power of 0.25 kilowatt 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 W248AH antenna system contributes 0.0069 mw/cm<sup>2</sup>.<sup>2</sup> Based on exposure limitations for a controlled environment, 0.7% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, 3.5% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

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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 10.0 meters out from the base of the tower and is considered worst case.

Since this level for controlled and uncontrolled environments is less than the 5% limit defined by the Commission in §1.1307(b)(3)(i), the proposed W248AH antenna system is believed to be in compliance with the radio frequency radiation exposure limits, as required by the Federal Communications Commission. Further, DSG will ensure that warning signs are posted in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, DSG 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 the FCC guidelines.