

MINOR CHANGE APPLICATION
MILLER COMMUNICATIONS, INC.
W235CH FM TRANSLATOR STATION
CH 235D - 94.9 MHZ - 0.099 KW
SAINT MATTHEWS, SOUTH CAROLINA
July 2015

EXHIBIT D

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 facilities and utilizes the appropriate formulas contained in the OET Bulletin.¹

The W235CH antenna system will be mounted with its center of radiation 34.7 meters (113.8 feet) above the occupied floor of the building at the tower location and will operate with an effective radiated power of 0.099 kilowatt (99 watts) in the horizontal and vertical planes (circularly polarized). W235CH will utilize a four (4) bay Shively 6832 half-wavelength spaced antenna. At 2.0 meters above the occupied floor space, the height of an average person, the W235CH antenna system will contribute 0.00015 mw/cm².² Based on exposure limitations for a controlled environment, less than 1.0% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments less than 1.0% of the ANSI limit is reached at 2.0 meters above occupied floor of the building.

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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 occurs at 127.5 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 5.0% limit defined by the Commission in §1.1307(b)(3)(I) of the rules, the proposed W235CH antenna system facility is believed to be in compliance with the radio frequency radiation exposure limits, as required by the Federal Communications Commission. Further, Miller will post warning signs in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, Miller 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's guidelines