

MINOR CHANGE APPLICATION
FAMILY WORSHIP CENTER CHURCH, INC.
W214BG FM TRANSLATOR STATION
CH 214D - 90.7 MHZ - 0.038 KW - ND
WAYCROSS, GEORGIA
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 contributing stations and utilizes the appropriate formulas contained in the OET Bulletin.¹

The proposed W214BG antenna system is mounted with its center of radiation 50.2 meters (165 feet) above the ground at the tower location and will operate with an effective radiated power of 0.038 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 W214BG antenna system contributes 0.000655 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% 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 13.5 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% limit defined by the Commission in §1.1307(b)(3)(i), the proposed W214BG antenna system facility is believed to be in compliance with the radio frequency radiation exposure limits, as required by the Federal Communications Commission. Further, Family will post warning signs in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, Family 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 FCC guidelines