

MODIFICATION OF LICENSE APPLICATION
RE-LICENSE FORMER MAIN AS AUXILIARY
WWGP BROADCASTING CORPORATION
WFJA (FM) RADIO STATION
CH 288A - 105.5 MHZ - 0.55 KW
SANFORD, NORTH CAROLINA
February 2009

EXHIBIT C

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. The proposed WFJA auxiliary antenna is located at a site with multiple users. The study uses the appropriate formulas contained in the OET Bulletin.¹

The proposed WFJA auxiliary antenna system is mounted with its center of radiation 69.0 meters (226.4 feet) above the ground at the tower location and will operate with an effective radiated power of 0.55 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 WFJA auxiliary antenna system will contribute 0.0049 mw/cm².² Based on exposure limitations for a controlled environment, 0.5% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, 2.5% 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 contribution of the FM stations was calculated with the FM Model program. The EPA dipole antenna was used for calculations unless otherwise noted.
 - 2) This level of contribution occurs at 18.0 meters out from 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), this proposal is believed to be in compliance with the radio frequency radiation exposure limits, as required by the Federal Communications Commission. Further, WBC will post warning signs in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, WBC 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.