

MINOR CHANGE APPLICATION
RADIO PERRY, INC.
WPGA-DT TELEVISION STATION
CH 32 - 578-584 MHZ - 1000.0 KW
PERRY, GEORGIA
November 2011

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 utilizes the appropriate formulas contained in the OET Bulletin.¹ It is noted that the WPGA-DT tower is located in close proximity to several towers where the antennas of other stations serving the Macon, Georgia market are located. The tower is therefore considered located within a tower farm.

The proposed WPGA-DT Channel 32 antenna system will be mounted with its center of radiation 265.6 meters (871.4 feet) above the ground at the tower location and will operate with an effective radiated power of 1000.0 kilowatts in the horizontal plane. As denoted in OET Bulletin #65, Supplement A, page 31, the typical UHF antenna system has a downward radiated field of 0.1. As such, the calculations of the WPGA-DT antenna are based on a power of 10.0 kilowatts. At 2.0 meters above the ground at the base of the tower, the height of an average person, the WPGA-DT antenna system will contribute 0.0019 mw/cm². Based on exposure

1) The proposed WPGA-DT facility will be located at a site at which there are multiple towers; therefore, the site is considered a defacto tower farm.

limitations for a controlled environment, 0.1% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, 0.5% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

Since this level for controlled and uncontrolled environments is less than the 5% limit defined by the Commission in §1.1307(b)(3)(i), and the proposed WPGA-DT facility is located in a de facto tower farm, this proposal is believed to be in compliance with the radio frequency radiation exposure limits, as required by the Federal Communications Commission. Further, RPI will insure that warning signs are posted in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, RPI 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.