

**HUMAN EXPOSURE TO RADIOFREQUENCY ELECTROMAGNETIC FIELDS COMPLIANCE STATEMENT PREPARED BY RYAN WILHOUR OF THE FIRM KESSLER AND GEHMAN ASSOCIATES, INC., TELECOMMUNICATIONS CONSULTING ENGINEERS IN CONNECTION WITH AN APPLICATION FOR A MINOR CHANGE IN LICENSE TO CHANGE CHANNELS PURSUANT TO THE FCC CLOSING AND CHANNEL REASSIGNMENT PUBLIC (CCRPN) NOTICE RELEASED ON 4/13/2107.**

### **ENVIRONMENTAL IMPACT**

The WNCT Channel 12 post-auction facility will have no significant environmental impact as defined in §1.1307 of the FCC Rules. The digital transmitter, transmission line and antenna system produces a horizontally polarized ERP of 35 kW. It was determined that the maximum lobe of radiation will occur at 198.4 feet from the base of the tower (1,898.4 ft radial distance from the antenna center). At 198.4 feet from the base of the tower, the depression angle of the main lobe will be approximately 84° below the horizontal. At that point, the relative field is 0.079 and the power density six feet above the ground will be 0.00002 mW/cm<sup>2</sup>. This equates to only 0.011% of the Maximum Permissible Exposure (MPE) limits for Occupational/Controlled Exposure and only 0.002% of the MPE limits for General Population/Uncontrolled Exposure authorized by the American National Standards Institute (ANSI). Since operation of the proposed WNCT Channel 12 post-auction facility will not exceed 5.0% of the MPE limit for Occupational/Controlled Exposure or General Population/Uncontrolled Exposure at any point on the ground, the WNCT Channel 12 post-auction facility is not considered a “significant contributor” to the RF exposure environment pursuant to OET Bulletin 65, Edition 97-01. Therefore, contributions of exposure from other sources were not accounted for in this analysis. It is safe to conclude that the emissions would be insignificant and well within the maximum allowable requirements.

If other antennas are placed on the tower in the future, the licensee will cooperate with those users by reducing or completely terminating the power to the antenna when

maintenance workers are in danger from the electromagnetic radiation emanating from the antenna. It is also understood that additional antennas on the support structure could increase the overall RF exposure levels and it is the responsibility of each licensee to ensure that the total RF exposure resulting from the operation of all antennas on the support structure do not exceed the MPE level at any point on the ground.

### **CERTIFICATION**

This technical statement was prepared by Ryan Wilhour who is an Engineering Associate with the firm Kessler and Gehman Associates, Inc. having offices in Gainesville, Florida, and has been working with the firm in the field of radio and television broadcast consulting since 1996. Mr. Wilhour was a graduate from the University of Florida with a Bachelor's of Science Degree in Electrical Engineering. As a Professional in the field of Telecommunications he states under penalty of perjury that the information contained in this report is true and correct to the best of his knowledge and belief.



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Ryan Wilhour  
Engineering Associate

28 May, 2017