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HUMAN EXPOSURE TO RADIOFREQUENCY ELECTROMAGNETIC FIELDS COMPLIANCE STATEMENT PREPARED BY WILLIAM T. GODFEY, JR. OF THE FIRM KESSLER AND GEHMAN ASSOCIATES, INC., TELECOMMUNICATIONS CONSULTING ENGINEERS IN CONNECTION WITH A RENEWAL OF LICENSE APPLICATION FOR THE WBIQ-DT CHANNEL 10 FACILITY (BLEDT-20140612ABA).

## **ENVIRONMENTAL IMPACT**

The WBIQ-DT Channel 10 facility will have no significant environmental impact as defined in §1.1307 of the FCC Rules. The digital transmitter, transmission line and antenna system generate a horizontally polarized ERP of 3.0 kW (H-pol Only). It was determined that the maximum lobe of radiation will occur approximately 2.9 miles from the base of the tower. At 2.9 miles from the base of the tower, the depression angle of the main lobe will be approximately 4° below the horizontal. At that point, the relative field is 0.651 and the power density six feet above the ground will be 0.0000002 mW/cm<sup>2</sup>. This equates to 0.0002% of the Maximum Permissible Exposure (MPE) Occupational/Controlled Exposure and only 0.001% of the MPE limits for General Population/Uncontrolled Exposure authorized by the American National Standards Institute (ANSI). Since operation of the WBIQ-DT Channel 10 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 WBIQ-DT Channel 10 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

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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 William T. Godfrey, Jr., 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 1998. Mr. Godfrey was a graduate from the University of North Florida and a Distinguished Military Graduate from the University of Florida. 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.

WILLIAM T. GODFREY, JR

Consulting Engineers

Kessler and Gehman Associates, Inc.

24 November, 2020