

ENGINEERING TECHNICAL STATEMENT

The WAIQ Channel 27 full-service digital television broadcast facility is currently licensed to operate using a horizontally polarized, nondirectional, top-mount antenna with an ERP of 600 kW and an antenna height radiation center of 162.8 m AGL (File Number BLEDT-20060706ACK). This modification of a license for DTV application requests authorization to make the following changes:


- Change from a Dielectric model TFU-36GTH-R 04 DC nondirectional, horizontally polarized, top-mount antenna with 0.75° electrical beam tilt to a Dielectric model TFU-36JTH/VP-R 06 nondirectional, elliptically polarized, top-mount antenna with 0.75° electrical beam tilt (Omni-for-omni swap).
- Decrease antenna height radiation center from 162.8 m AGL to 162.7 m AGL resulting in a 0.1 m decrease in antenna height.
- Change polarization from horizontal to elliptical.

The proposed facility's F(50,90) 40.05 dBuV/m protected noise limited contour is completely encompassed by the licensed facility's F(50,90) 40.05 dBuV/m protected noise limited contour in all azimuthal directions (See Exhibit 1). As demonstrated in the enclosed TVStudy Report, the proposed facility will not cause impermissible interference to any stations. **Note: This application defaulted to horizontal polarization and would not provide an option to change the polarization to elliptical; therefore, the applicant is hereby requesting elliptical polarization so that it will be depicted on the license. Also, please note that the applicant accepts the 1.93% predicted receive interference that is depicted in the attached TVStudy Report.**

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.


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Kessler and Gehman Associates, Inc.

Consulting Engineers

25 August, 2023