

**PURPOSE OF PRE-AUCTION ENGINEERING STA**

The purpose of this Engineering STA application is to allow the WVBT-DT facility to temporarily operate with alternate parameters on its pre-auction channel (29) using a side-mounted nondirectional interim antenna (TUA-O4-8/32H-1-R SM) while the new post-auction main antenna is installed and the main facility is built-out. The proposed interim antenna for the WVBT temporary facility is a broadband, nondirectional antenna which will also be used as an interim antenna for the WAVY repack nondirectional facility and will be used as the main antenna for the nondirectional WNLO-CD repack facility. Since WAVY and WNLO-CD are nondirectional facilities, the WVBT directional facility must temporarily operate using the nondirectional interim antenna. In order for the WVBT-DT Channel 29 pre-auction interim facility to serve its viewers while the main post-auction facility is built out, it must operate with an ERP of 815 kW. The licensed pre-auction Channel 29 facility currently operates with an ERP of 1,000 kW with an antenna height radiation center of 241 m AGL (790.7 ft); however, the proposed interim antenna will have an antenna height radiation center of only 220.4 m AGL (723.1 ft) which is significantly lower. This STA would request an ERP of 1,000 kW if the station had sufficient transmitter power output to achieve it; however, with a maximum TPO of 50 kW from its existing two-tube transmitter, the maximum ERP that can be achieved is 815 kW.

Referring to enclosed Exhibit 1, it can be seen that the proposed pre-auction interim facility's F(50,90) 40.23 dBu protected noise limited contour (red) will be completely encompassed by the licensed pre-auction facility's F(50,90) 40.23 dBu protected noise limited contour (green) until the nondirectional portion of the interim pattern exceeds the directional portion of the licensed pattern which is unavoidable as explained above. The proposed interim facility's F(50,90) 48.0 dBuV/m principal community contour will completely encompass its community of license.

## **TVSTUDY**

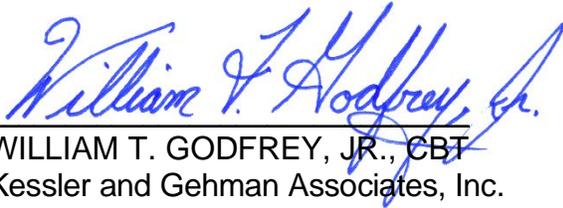
The enclosed TVStudy report demonstrates that the proposed WVBT-DT Channel 29 pre-auction interim facility will not cause impermissible interference to any station based on the allowable 2.0% interference threshold during the repack under the following conditions.....

- **Coordinate with the WUND-DT Channel 29 post-auction facility. The proposed WVBT-DT Channel 29 facility shall not operate when the WUND-DT facility transitions from pre-auction Channel 20 to post-auction Channel 29.**
- **The WCVW-DT Channel 29 and WRIC-DT Channel 28 post-auction facilities are assigned to Phase 8 and the proposed WVBT-DT Channel 29 facility shall cease operation on or before the Phase 7 deadline and will therefore not have any impermissible interference conflicts with the WCVW-DT Channel 29 and/or WRIC-DT Channel 28 Phase 8 post-auction facilities.**
- **The enclosed TVStudy report indicates that the proposed WVBT-DT Channel 29 facility will cause 0.77% interference to the WXLV-DT Channel 29 non-repack licensed facility which exceeds the 0.5% interference threshold by 0.27%; however, it is within the 2.0% interference threshold allowable during the FCC repack. Since the proposed WVBT-DT Channel 29 facility shall cease operation on or before the Phase 7 deadline, it will also cease causing in excess of 0.5% interference well before cessation of the FCC repack.**

## **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., CBT  
Kessler and Gehman Associates, Inc.  
Consulting Engineers

December 16, 2019