

## **ENGINEERING TECHNICAL STATEMENT**

Pursuant to DA 18-884 released on August 27, 2018, a host station must file a minor change application to its current channel sharing license for a construction permit specifying the host station's post-auction channel and parameters previously authorized in its post-auction construction permit. Accordingly, this minor change application is being filed to comply with the required transition filing obligation for post-transition operation which will trigger the LMS to file a post-auction license application on behalf of the Sharee station (WKBN) upon the filing of the post-auction license application by the host station (WYTV).

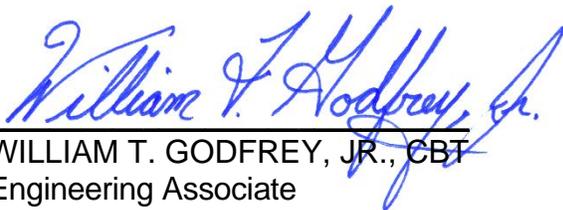
It should be noted that the LMS will not allow the applicant to change Pre-Auction Channel 36 to Post-Auction Channel 31 as required; therefore, Nexstar requests the Commission to manually make the change. The LMS will also not allow the applicant to change the 1,000 kW Pre-Auction ERP to the 703 kW Post-Auction ERP as authorized; therefore, Nexstar requests the Commission to manually make the change. The TPO Calculations for post-auction operation are as follows:

- TPO: 15.83 dBk (38.3 kW)
- Transmission Line Loss: 1.87 dB
- Antenna Input Power: 13.96 dBk
- Maximum Antenna Power Gain: 14.51 dB
- Effective Radiated Power: 28.47 dBk (703 kW)

It should also be noted that the LMS for this minor change application will not allow the polarization to be changed; therefore, it is hereby noted that the post-auction facility shall operate using Elliptical Polarization where the Vertical Component incorporates 35% fill and therefore, does not exceed the authorized Horizontal Component (pattern) in any azimuthal direction. See attached antenna electrical and mechanical data from the antenna manufacturer for additional details.

**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.

A handwritten signature in blue ink that reads 'William T. Godfrey, Jr.' with a stylized flourish at the end.

WILLIAM T. GODFREY, JR., CBT  
Engineering Associate

12 July, 2019