

## ENGINEERING TECHNICAL STATEMENT

The KGET-DT Channel 25 facility is licensed to operate using an Andrew model ALP16M6-HSE-25 side-mount, horizontally polarized, directional antenna with an ERP of 135 kW and an antenna height radiation center of 52.0 m AGL (0000007394). This application requests authorization to make the following changes:

- 1) Increase ERP from 135 kW to 1,000 kW
- 2) Change antennas from side-mount Andrew ALP16M6-HSE-25 horizontally polarized directional antenna (cardioid) to top-mount Dielectric TFU-29JTT CT150 horizontally polarized directional antenna (cardioid)
- 3) Increase antenna height radiation center from 52.0 m AGL to 69.9 m AGL (17.9 m increase).

No other changes are proposed.

It can be seen in the map showing below that the proposed facility's F(50,90) 39.46 dBuV/m protected noise limited contour (green) exceeds the licensed facility's F(50,90) 39.46 dBuV/m protected noise limited contour (red) in all azimuthal directions and therefore meets the community of license requirements and public interest requirements.



**LARGEST STATION IN THE MARKET**

Section 73.622(f)(5) of the FCC rules states that licensees and permittees assigned a DTV channel in the initial DTV Table of Allotments may request an increase in either ERP in some azimuthal direction or antenna HAAT, or both, that exceed the initial technical facilities specified in Appendix B, up to that needed to provide the same geographic coverage area as the largest station within their market, whichever would allow the largest service area. It was determined that the licensed KERO-DT Channel 10 (10.8 kW ERP) Bakersfield, CA facility is a larger station in the Bakersfield, CA market. The licensed KERO-DT Channel 10 facility's F(50,90) 36.0 dBuV/m protected noise limited contour encompasses an area of 39,265.0 sq. km and the proposed KGET-DT Channel 25 facility's F(50,90) 39.85 dBuV/m protected noise limited contour with an ERP of 1,000 kW encompasses an area of only 35,732.3 sq. km which is within the KERO-DT 39,265.0 sq. km limit.

**TVSTUDY RESULTS**

The attached TVStudy report demonstrates that the KGET-DT Channel 25 facility operating with an ERP of 1,000 kW with the proposed top-mount directional antenna will not cause impermissible interference to any stations. The station will accept the interference depicted in the 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.

A handwritten signature in blue ink that reads 'William T. Godfrey, Jr.'.

WILLIAM T. GODFREY, JR., CBT  
Kessler and Gehman Associates, Inc.  
Consulting Engineers

26 November, 2020