

TECHNICAL STATEMENT  
K300AD CHICO, CALIFORNIA 227D  
BUSTOS MEDIA HOLDINGS, LLC  
AUGUST 2022

This Technical Statement is in support of a minor modification to a construction permit for K300AD, facility ID #16176. Since KZIS, formerly KSTE-FM, Sacramento, California 300B went back on the air, the signal from K300AD has been clobbered in Chico, California<sup>2</sup>. Bustos Media Holdings, LLC is respectfully requesting to resolve the interference by changing to a non-adjacent channel of 227D with a custom directional antenna at an Effective Radiated Power from 250 Watts. No other parameters will change.

Figure 1 shows a channel interference study conducted from the proposed site for the K300AD translator. The only pertinent records for further study are:

- 1) KBQB Chico, California 224A License
- 2) KPAY-FM Chico, California 230B1 License

The proposed site is located within the protected contours of 3<sup>rd</sup> adjacent stations KBQB Chico, California on channel 224A and KPAY-FM Chico, California on channel 230B1. At the proposed transmitter site, the predicted F(50-50) field strength of KBQB is 83.5 dB $\mu$  and of KPAY-FM is 74.3 dB $\mu$ . The worst-case predicted interfering contour F(50-10) generated by the proposed facility is to KPAY-FM and would be an additional 40 dB $\mu$  above the 74.3 dB $\mu$  at a signal strength of 114.3 dB $\mu$ . This 114.3 dB $\mu$  interference contour F(50-10) travels a maximum distance of 213.1 meters from the transmitting antenna. Figure 2 is an aerial view of the transmitter site that shows there is no population within 213.1 meters of the transmission site. The applicant, Bustos Media Holdings, LLC, respectfully states that this application meets the requirements of C.F.R. 74.1204(d) of the Commission's rules based on the fact that there is no population within the area of predicted interference.

Figure 3 shows the 60 dB $\mu$  contours of the proposed facility, in red, and the current licensed facility seeking to be modified by this application, in blue, overlap. (The transmission site is not changing.)

Figure 4 shows the proposed operation of K300AD translator will operate as a fill-in for KHHZ-FM, HD channel 2, Gridley, California, facility ID #50709.

It was concluded that the proposed operation of K300AD translator in Chico, California on 227D will not cause any harmful interference to any existing stations and will be in full compliance with the Commission's rules.