

TECHNICAL STATEMENT  
K259DC HOUSTON, TEXAS 277D  
BUSTOS MEDIA HOLDINGS, LLC  
FCC FORM 349  
JUNE 2022

This Technical Statement is in support of a minor change, FCC form 349, being filed on behalf of Bustos Media Holdings, LLC in regards to K259DC Houston, Texas, facility ID #201261.

The licensed facilities of K259DC currently receives incoming interference from 4 sources, 3 co-channel and one 1st adjacent. The interference overlaps of the transmitter site are shown in the following table:

Station	Channel	Overlap In	Overlap Out
KVST	259C	9.0 km	48.1 km
KOYM-LP	259L1	7.1 km	0.8 km
KHGV-LP	259L1	6.9 km	5.9 km
K258BZ	258D	5.0 km	0.9 km

Bustos Media Holdings, LLC is proposing to change channels in order to eliminate the current interference to channel 277D. It will transmit from an existing site, ASR 1049435, at the coordinates N. 29°-39'-55.40", W. 95°-23'-48.20", NAD 83. The proposed operation will use a custom directional antenna with an Effective Radiated Power of 10 Watts. The antenna will be mounted at 104.2 meters Above Ground Level, with a Center of Radiation at 120 meters Above Mean Sea Level.

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

- 1) KJOJ-FM Freeport, Texas 277C License Deleted
- 2) KLTN Houston, Texas 275C0 License
- 3) K277DE Houston, Texas 277D License

- 4) K278DA Houston, Texas 278D CP
- 5) KHJK La Porte, Texas 279C License
- 6) K278DA Houston, Texas 278D License

The license of KJOJ-FM has been deleted by the FCC.

The proposed site is located within the protected contours of 2nd adjacent stations KLTN Houston, Texas on channel 275C0 and KHJK La Porte, Texas on channel 279C. At the proposed transmitter site, the predicted F(50-50) field strength of KLTN is 97.6 dBμ and KHJK is 60.5 dBμ. The worst-case predicted interfering contour F(50-10) generated by the proposed facility is to KHJK at an additional 40 dBμ above the 60.5 dBμ received from KHJK at a signal strength of 100.5 dBμ. This 100.5 dBμ interference contour F(50-10) travels a maximum distance of 208.8 meters from the transmitting antenna.

Fig 2 shows the aerial view of the transmitter site with a circle of radius 208.8 meters. Fig 3 shows the directional antenna pattern. Note that the pattern does not fill in the circle from 140 to 150 degrees, which is the only area within 208.8 meters that may have any population. Therefore, the requirements of C.F.R. 74.1204(d) of the Commission's rules are met based on the fact that there is no population within the area of predicted interference.

Figure 4 is the predicted coverage map showing the 40 dBμ interference contour F(50,10) of the proposed operation and the 60 dBμ protected contour F(50,50) of K277DE Houston, Texas on channel 277D. As can be seen, there is no prohibited overlap between these two contours.

Figure 5 is the predicted coverage map showing the 54 dBμ interference contour F(50,10) of the proposed operation and the 60 dBμ protected contour F(50,50) of K278DA CP Houston, Texas on channel 278D. As can be seen, there is no prohibited overlap between these two contours.

Figure 6 is the predicted coverage map showing the 54 dB $\mu$  interference contour F(50,10) of the proposed operation and the 60 dB $\mu$  protected contour F(50,50) of K278DA License Houston, Texas on channel 278D. As can be seen, there is no prohibited overlap between these two contours.

Figure 7 shows the 60 dB $\mu$  contours of the proposed facility and the current licensed facility overlap.

The proposed operation of new translator will operate as a fill-in for KREH(AM) Pecan Grove, Texas, facility ID #71631. Figure 8 shows that the 60 dB $\mu$  contour F(50,50) of the new translator is fully within the 2 mV/m contour of KREH(AM).

It was concluded that the proposed operation of new translator in Houston, Texas on 277D will not cause any harmful interference to any existing stations and will be in full compliance with the Commission's rules. Let it be noted that should any actual real world interference occur, the applicant acknowledges that it will promptly suspend operation of this translator in accordance with 47 C.F.R. § 74.1203.