

TECHNICAL STATEMENT
K259DC HOUSTON, TEXAS 273D
BUSTOS MEDIA HOLDINGS, LLC
FCC FORM 349
AUGUST 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 as well as the signal strength are shown in the following table:

Station	Channel	Overlap In	Overlap Out	Signal Strength
KVST	259C	9.0 km	48.1 km	33.05 dBu
KOYM-LP	259L1	7.1 km	0.8 km	43.78 dBu
KHGV-LP	259L1	6.9 km	5.9 km	45.26 dBu
K258BZ	258D	5.0 km	0.9 km	56.79 dBu

Bustos Media Holdings, LLC is proposing to change channels in order to eliminate the current interference to channel 273D. It will transmit from a different site at the coordinates N. 29°-42'-58.78", W. 95°-30'-14.48", NAD 83. The proposed operation will use a custom directional antenna with an Effective Radiated Power of 70 Watts. The antenna will be mounted at 64 meters Above Ground Level, with a Center of Radiation at 46 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) KMJQ Houston, Texas 271C License
- 2) KLTN Houston, Texas 275C0 License
- 3) KMAZ-LP Houston, Texas 273L1 License

4) K273DO Richmond, Texas 273D License

5) KJFI-LP Houston, Texas 273L1 License

The proposed site is located within the protected contours of 2nd adjacent stations KMJQ Houston, Texas on channel 271C and KLTN Houston, Texas on channel 275C0. At the proposed transmitter site, the predicted F(50-50) field strength of KMJQ is 96.8 dB μ and KLTN is 91.3 dB μ . The worst-case predicted interfering contour F(50-10) generated by the proposed facility is to KLTN at an additional 40 dB μ above the 91.3 dB μ received from KLTN at a signal strength of 131.3 dB μ . This dB μ interference contour F(50-10) travels a maximum distance of 16.0 meters from the transmitting antenna.

Figure 2 shows the aerial view of the transmitter site. The building is about 30 meters wide and 60 meters long. Figure 3 is a table that takes into account the elevation pattern of the antenna. The antenna is mounted 10 meters above the floor of the top populated floor. The minimum clearance is calculated from this reference point. Note that the minimum clearance is no lower than 2.9 meters or about 9.5 feet. 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 dB μ interference contour F(50,10) of the proposed operation and the 60 dB μ protected contour F(50,50) of KMAX-LP Houston, Texas on channel 273L1. As can be seen, there is no prohibited overlap between these two contours.

Figure 5 is the predicted coverage map showing the 40 dB μ interference contour F(50,10) of the proposed operation and the 60 dB μ protected contour F(50,50) of K273DO Houston, Texas on channel 273D. As can be seen, there is no prohibited overlap between these two contours.

Figure 6 is the predicted coverage map showing the 40 dB μ interference contour

F(50,10) of the proposed operation and the 60 dB μ protected contour F(50,50) of KJFI-LP Houston, Texas on channel 273L1. As can be seen, there is no prohibited overlap between these two contours.

Figure 7 shows the 60 dB μ contours of the proposed facility, red contour, and the current licensed facility, blue contour, 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 μ contour F(50,50) of the 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 273D 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.