

**DELAWDER COMMUNICATIONS, INC.**

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**ENGINEERING REPORT**

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**K272EK, San Antonio, TX, Channel 272D Minor Change**

**ENGINEERING STATEMENT**

**PROTECTION TO KQXT-FM AND KJXK-FM**

All contour non-overlap protection requirements are met with the exception of KQXT-FM, San Antonio, TX (270C1) and KJXK-FM, San Antonio, TX (274C), discussed below.

KQXT-FM and KJXK-FM (both located 1.4 kilometers at 143 degrees True) are second/third adjacent-channel to the proposed channel 272D facility. The 60 dBu F50,50 service contour of each extends well beyond the proposed 272D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KQXT-FM or KJXK-FM.

Note that a rule waiver of Section 74.1204 for this second/third adjacent-channel protection using the well-established *Living Way Ministries* Methodology is respectfully requested if such a rule waiver is deemed necessary for protection to any station.

The F50,50 signal strength from both KQXT-FM and KJXK-FM at the proposed 272D transmitter site is at least 100 dBu (the "desired" signals). The second/third adjacent-channel protection of Section 74.1204 is an undesired-to-desired ("U/D") dB signal strength ratio of 40:1. Therefore, predicted interference to KQXT-FM and KJXK-FM from the proposed 272D facility is a signal of greater than or equal to 140 dBu.

The 140 dBu signal based on a free space field determination is predicted to extend out to 8 meters from the proposed 272D transmit antenna. The antenna is on top of a concrete platform that is more than 6 meters above the rooftop of the building. The interfering signal level will not reach any point at 2 meters above the top floor of the building. (The clearance is at least 15 meters above the highest floor where the general public will have access.) Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KQXT-FM and KJXK-FM are adequately protected by the proposed facility.