

**DELAWDER COMMUNICATIONS, INC.**

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**ENGINEERING REPORT**

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**K273AL, Livingston, TX, Channel 276D FM Translator Application**

**ENGINEERING STATEMENT**

All required protections are met by contour non-overlap pursuant to Section 74.1204, with the exception of protection to KHJK, La Porte, TX, 279C. KHJK is protected, as discussed below.

**PROTECTION TO KHJK**

KHJK 279C (82 kilometers at 144 degrees True from translator site) is a third adjacent-channel station to the proposed channel 276 translator facility. The 60 dBu F50,50 service contour of KHJK extends beyond the 276D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KHJK.

Note that a rule waiver of Section 74.1204 for this second and 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 KHJK at the proposed 276D transmitter site is greater than 64 dBu (the "desired" signal). The second/third adjacent-channel protection is an undesired-to-desired ("U/D") dB signal strength ratio of 40:1. Therefore, predicted interference to KHJK is a 276D signal of greater than or equal to 104 dBu.

The 104 dBu signal based on a free space field determination is predicted to extend out to 141 meters from the proposed 276D transmitter antenna. The interfering signal level will not reach any point at ground level or at 2 meters above ground level. (The clearance is more than 400 meters.) Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KHJK is adequately protected by the proposed facility.