

**DELAWDER COMMUNICATIONS, INC.**

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**ENGINEERING REPORT**

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**K244FC, Ennis (to Waxahachie), TX, Channel 244D FM Translator Minor Change**

**ENGINEERING STATEMENT**

Applicant submits this site move minor change Application for K244FC, Ennis, Texas, 244D, for a site move to the Waxahachie, Texas area. This is a minor change application. All required protections are met by contour non-overlap pursuant to Section 74.1204, with the exception of protection to KSCS, Fort Worth, TX, 242C and KEGL, Fort Worth, TX, 246C. KSCS and KEGL are protected, as discussed below.

**PROTECTION TO KSCS AND KEGL**

KSCS 242C and KEGL 246C (both 30 kilometers at 321 degrees True bearing from the 244D site) are second adjacent-channel stations to the proposed channel 244D facility. The 60 dBu F50,50 service contour for each extends well beyond the 244D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KSCS or KEGL.

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 KSCS at the proposed 244D transmitter site is greater than 84 dBu (the "desired" signal for KSCS). The F50,50 signal strength from KEGL at the proposed 244D transmitter site is greater than 85 dBu (the "desired" signal for KEGL). 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 KSCS and KEGL from the proposed 244D facility is a signal of greater than or equal to 124 dBu.

The 124 dBu signal based on a free space field determination is predicted to extend out to 71 meters from the proposed 244D transmit antenna. The interfering signal level will not reach any point at ground level or at 2 meters above ground level. (The clearance is at least 20 meters.) Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KSCS and KEGL are adequately protected by the proposed facility.