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ENGINEERING REPORT

K244FC, Waxahachie (to De Soto), TX, Channel 244D FM Translator Minor Change

ENGINEERING STATEMENT

Applicant submits this site move minor change application for K244FC, Waxahachie, Texas, 244D, for a site move to the De Soto, 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 within one kilometer of 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 both KSCS and KEGL at the proposed 244D transmitter site is greater than 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 KSCS and KEGL from the proposed 244D 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 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 300 meters.) Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KSCS and KEGL are adequately protected by the proposed facility.