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ENGINEERING REPORT

Dallas, TX, Channel 240D 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 KSCC, Fort Worth, TX 242C. KSCC is protected, as discussed below.

PROTECTION TO KSCC

KSCC 242C (0.7 kilometers at 116 degrees True from translator site) is a second adjacent-channel stations to the proposed channel 240 translator facility. The 60 dBu F50,50 service contour of KSCC extends well beyond the 240D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KSCC.

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 KSCC at the proposed 240D transmitter site is greater than 110 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 KSCC is a 240D signal of greater than or equal to 150 dBu.

The 150 dBu signal based on a free space field determination is predicted to extend out to 2 meters from the proposed 240D 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 285 meters.) Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KSCC is adequately protected by the proposed facility.