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ENGINEERING REPORT

K244FC, Hillsboro, TX, Site-Move Minor Change (244D)

ENGINEERING STATEMENT

All required protections are met by contour non-overlap pursuant to Section 74.1204, with the exception of protection to Fort Worth, Texas stations KSCS (242C) and KEGL (246C). KSCS and KEGL are protected, as discussed below.

PROTECTION TO KSCS AND KEGL

KSCS and KEGL are second adjacent-channel stations to the proposed channel 244D facility. The 60 dBu F50,50 service contour for both KSCS and KEGL extends 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 65.8 dBu (the “desired” signal to KSCS). The F50,50 signal strength from KEGL at the proposed 244D transmitter site is greater than 66 dBu (the “desired” signal to 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 105.8 dBu.

The 105.8 dBu signal based on a free space field determination is predicted to extend out to 569 meters from the proposed 244D transmitter site. As shown by the attached aerial photograph that includes the 105.8 dBu free space loss (“FSL”) contour of the proposed translator, *there is no population located within the 105.8 dBu interfering contour*. Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KSCS and KEGL are adequately protected by the proposed facility.