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ENGINEERING REPORT

K254BZ, Houston, TX, Channel 254D 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 KODA, Houston, TX, 256C. KODA is protected, as discussed below.

PROTECTION TO KODA

KODA 256C (1.6 kilometers at 277 degrees True from translator site) is a second adjacent-channel station to the proposed channel 254 translator facility. The 60 dBu F50,50 service contour of KODA extends well beyond the 254D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KODA.

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 KODA at the proposed 254D transmitter site is greater than 90 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 KODA is a 254D signal of greater than or equal to 130 dBu.

The 130 dBu signal based on a free space field determination is predicted to extend out to 36 meters from the proposed 254D 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, KODA is adequately protected by the proposed facility.