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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 and K252FR (CP), Houston, TX, 252D. KODA and K252FR are protected, as discussed below.

PROTECTION TO KODA AND K252FR

K252FR 252D and KODA 256C (both located within one kilometer of the 254D translator site) are second adjacent-channel stations to the proposed channel 254 translator facility. The 60 dBu F50,50 service contour of both K252FR and 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 K252FR and 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 K252FR and from KODA at the proposed 254D transmitter site is greater than 100 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 either K252FR or KODA is a 254D 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 12 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 340 meters.) Therefore, pursuant to Section 74.1204(d) of the FCC Rules, both K252FR and KODA are adequately protected by the proposed facility.