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ENGINEERING REPORT

K247CP, Houston, TX, Channel 247D Site-move Minor

ENGINEERING STATEMENT

All required protections are met by contour non-overlap pursuant to Section 74.1204, with the exception of protection to KBXX, Houston, TX 250C. KBXX is protected, as discussed below.

PROTECTION TO KBXX

KBXX 250C (17 kilometers at 147 degrees True from the translator site) is a third adjacent-channel station to the proposed channel 247 translator facility. The 60 dBu F50,50 service contour of KBXX extends well beyond the 247D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KBXX.

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 KBXX at the proposed 247D transmitter site is greater than 97 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 KBXX is a 247D signal of greater than or equal to 137 dBu.

The proposed antenna will be mounted on a new 37 meter tall tower next to an industrial building of less than 10 meters. The 137 dBu signal based on a free space field determination is predicted to extend out to 16 meters from the proposed 247D 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 10 meters to the top of the adjacent building.) Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KBXX is adequately protected by the proposed facility.