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ENGINEERING REPORT

K287BQ, Houston, TX, Minor Change Amendment

ENGINEERING STATEMENT

This is an antenna change minor amendment to the pending K287BQ application BPFT-20151211ABU.

PROTECTION TO KAMA-FM AND KHCB-FM

KAMA-FM, Deer Park, TX, 285C2 (25.2 kilometers at 36 degrees True from the proposed translator site) and KHCB-FM, Houston, TX, 289C (0.9 kilometers at 218 degrees True from the proposed translator site) are second adjacent-channel stations to the proposed channel 287D facility. The 60 dBu F50,50 service contour for each station extends well beyond the proposed 287D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KAMA-FM or KHCB-FM.

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 KAMA-FM at the proposed 287D transmitter site is 74 dBu (the "desired" signal of KAMA-FM). The F50,50 signal strength from KHCB-FM at the proposed 287D transmitter site is greater than 90 dBu (the "desired" signal of KHCB-FM). 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 KAMA-FM or KHCB-FM from the proposed 287D facility is a signal of greater than or equal to 114 dBu.

The 114 dBu signal based on a free space field determination is predicted to extend out to 144 meters from the proposed 287D transmitter site. The interfering signal level will not reach any point at ground level or at 2 meters above ground level. Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KAMA-FM and KHCB-FM are adequately protected by the proposed facility.