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ENGINEERING REPORT

K285GS, Freeport, TX, to Channel 287D Site Move Minor Change Application

ENGINEERING STATEMENT

This is a site move change for K285GS with a corresponding channel change to 287D.

PROTECTION TO KHCB-FM

KHCB-FM, Houston, TX, 289C, is second adjacent-channel to the proposed channel 287D facility and is located only 39.3 kilometers (at 320 degrees True bearing) from the 287D transmitter site. The 60 dBu F50,50 service contour 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 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 this station.

The F50,50 signal strength from KHCB-FM at the proposed 287D transmitter site is 80 dBu (the "desired" signal). 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 KHCB-FM from the proposed 287D facility is a signal of greater than or equal to 120 dBu.

The 120 dBu signal based on a free space field determination is predicted to extend out to 112 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, KHCB-FM is adequately protected by the proposed facility.