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ENGINEERING REPORT

K293CM, Dallas, TX, Channel 293D FM STA Application

ENGINEERING STATEMENT

All required protections are met by contour non-overlap pursuant to Section 74.1204, with the exception of protection to KHKS, Denton, TX 291C. KHKS is protected, as discussed below.

PROTECTION TO KHKS

KHKS (0.5 kilometers at 112 degrees True from the K293CM site) is a second adjacent-channel station to the proposed channel 293D facility. The 60 dBu F50,50 service contour extends well beyond the proposed 293D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KHKS.

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 KHKS at the proposed 293D transmitter site is at least 110 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 KHKS from the proposed 293D facility is a signal of greater than or equal to 150 dBu.

The 150 dBu signal based on a free space field determination is predicted to extend out to less 4 meters from the proposed 293D transmit antenna. 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, KHKS is adequately protected by the proposed facility.