

**DELAWDER COMMUNICATIONS, INC.**

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**ENGINEERING REPORT**

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**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 (nearly co-located with 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 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 KBXX is a 247D 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 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 340 meters.) Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KBXX is adequately protected by the proposed facility.