

**DELAWDER COMMUNICATIONS, INC.**

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**ENGINEERING REPORT**

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**San Francisco, CA, Channel 229D FM Translator Application**

**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 and K254BZ, Houston, TX 254D. K254BZ and KBXX are protected, as discussed below.

**PROTECTION TO K254BZ AND KBXX**

K254BZ 254D and KBXX 250C (both nearly co-located with the translator site) are second adjacent-channel stations to the proposed channel 252 translator facility. The 60 dBu F50,50 service contour of both K254BZ and KBXX extend well beyond the 252D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to K254BZ or 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 K254BZ at the proposed 252D transmitter site is greater than 100 dBu (the “desired” signal of K254BZ). The F50,50 signal strength from KBXX at the proposed 252D transmitter site is greater than 100 dBu (the “desired” signal of KBXX). The second/third adjacent-channel protection is an undesired-to-desired (“U/D”) dB signal strength ratio of 40:1. Therefore, predicted interference to K254BZ or KBXX is a 252D 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 252D 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 130 meters.) Therefore, pursuant to Section 74.1204(d) of the FCC Rules, K254BZ and KBXX are adequately protected by the proposed facility.