

**DELAWDER COMMUNICATIONS, INC.**

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**ENGINEERING REPORT**

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**K234CO, Stockton, CA, Channel 287D FM Translator Minor Change**

**ENGINEERING STATEMENT**

Applicant submits this channel substitution minor change Application for K234CO, Stockton, CA, 234D, for a change to I.F. channel 287D. All required protections are met by contour non-overlap pursuant to Section 74.1204, with the exception of protection to K290AG, Stockton, CA, 290D. The 290D translator is protected, as discussed below.

**PROTECTION TO K290AG**

K290AG is collocated on the same tower as the proposed channel 287D translator. The 60 dBu F50,50 service contour for K290AG extends well beyond the 287D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to K290AG.

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 K290AG at the proposed 287D transmitter site is greater than 120 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 K290AG from the proposed 287D facility is a signal of greater than or equal to 160 dBu.

The 160 dBu signal based on a free space field determination is predicted to extend out less than 2 meters from the proposed 287D 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, K290AG is adequately protected by the proposed facility.