

**DELAWDER COMMUNICATIONS, INC.**

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**ENGINEERING REPORT**

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**K259BD, Rosamond, CA, Minor Change to 259D**

**ENGINEERING STATEMENT**

All required protections are met by contour non-overlap pursuant to Section 74.1204, with the exception of protection to KKZQ, Tehachapi, CA 261A. KKZQ is protected, as discussed below.

**PROTECTION TO KKZQ**

KKZQ (261A) is a second adjacent-channel station to the proposed channel 259D translator facility. The 60 dBu F50,50 protected service contour extends beyond the proposed 259D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to the KKZQ CP facility.

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 KKZQ at the proposed 259D transmitter site is greater than 66 dBu (the "desired" signal for KKZQ). The second/third adjacent-channel protection is an undesired-to-desired ("U/D") dB signal strength ratio of 40:1. Therefore, predicted interference to KKZQ is a 294D signal of greater than or equal to 106 dBu.

The 106 dBu signal based on a free space field determination is predicted to extend out to 558 meters from the proposed 259D transmitter site. As demonstrated by the attached aerial photo of the translator site, there are no homes or major roads located within this distance that are within the 106 dBu Free Space Loss contour of the proposed 259D facility. Therefore, no interference will exist to KKZQ from the proposed facility.



Google Earth



106 DBU FREE SPACE LOSS CONTOUR OF PROPOSED IS SHOWN