

DELAWDER COMMUNICATIONS, INC.

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ENGINEERING REPORT

Proposed Gilroy, CA, Channel 226D

ENGINEERING STATEMENT

All required protections are met by contour non-overlap pursuant to Section 74.1204, with the exception of protection to KXZM, Felton, CA 229B1. KXZM is protected, as discussed below.

PROTECTION TO KXZM

KXZM (16 kilometers at 314 degrees True bearing from the 226D site) is a third adjacent-channel station to the proposed channel 226D facility. The 57 dBu F50,50 service contour for KXZM extends beyond the 226D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KXZM.

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 KXZM at the proposed 226D transmitter site is greater than 65 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 KXZM from the proposed 226D facility is a signal of greater than or equal to 105 dBu.

The 105 dBu signal based on a free space field determination is predicted to extend out to 626 meters from the proposed 226D transmit antenna. As shown by the attached aerial photograph, *there is no population located within 626 meters of the base of the tower.* Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KXZM is adequately protected by the proposed facility.

Channel 226D

N 37 03 28 W 121 46 34

Google Earth

1000 ft

