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ENGINEERING REPORT

San Jose, CA, Channel 225D 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 KSJO, San Jose, TX 222B. KSJO is protected, as discussed below.

PROTECTION TO KSJO

KSJO 222B (13.2 km at 186 degrees True) is a third adjacent-channel station to the proposed channel 225 translator facility. The 54 dBu F50,50 service contour KSJO extends well beyond the 225D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KSJO.

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 KSJO at the proposed 225D transmitter site is greater than 86 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 KSJO is a 225D signal of greater than or equal to 126 dBu.

The 126 dBu signal based on a free space field determination is predicted to extend out to 56 meters from the proposed 225D transmitter site. As shown by the attached aerial photograph that includes the 126 dBu free space loss (“FSL”) contour of the proposed translator, *there is <u>no</u> population located within the 126 dBu interfering contour.* Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KSJO is adequately protected by the proposed facility.

Proposed 126 dBu
Free Space Loss Contour
N 37 19 40.9 W 121 45 33.4
Google Earth
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N
200 ft