

**DELAWDER COMMUNICATIONS, INC.**

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**ENGINEERING REPORT**

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**K225DD, McKinney, TX, Channel 225D Site-move Minor**

**ENGINEERING STATEMENT**

All required protections are met by contour non-overlap pursuant to Section 74.1204, with the exception of protection to KZPS Dallas, TX (223C) and KLIF-FM Haltom City, TX (227C2). KZPS and KLIF-FM are protected, as discussed below.

**PROTECTION TO KZPS AND KLIF-FM**

KZPS 223C (67 kilometers at 201 degrees True from translator site) and KLIF-FM 227C2 (46 kilometers at 205 degrees True from translator site) are second adjacent-channel stations to the proposed channel 225 translator facility. The 60 dBu F50,50 service contour of both KZPS and KLIF-FM 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 KZPS and KLIF-FM.

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 KZPS at the proposed 225D transmitter site is greater than 67 dBu (the “desired” signal of KZPS). The F50,50 signal strength from KLIF-FM at the proposed 225D transmitter site is greater than 61 dBu (the “desired” signal of KLIF-FM). The second/third adjacent-channel protection is an undesired-to-desired (“U/D”) dB signal strength ratio of 40:1. Therefore, predicted interference to the worst case of KZPS and KLIF-FM is a 225D signal of greater than or equal to 101 dBu.

The 101 dBu signal based on a free space field determination is predicted to extend out to 198 meters from the proposed 225D 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 20 meters.) Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KZPS and KLIF-FM are adequately protected by the proposed facility.