

**DELAWDER COMMUNICATIONS, INC.**

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**ENGINEERING REPORT**

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**K218EJ, Houston, TX, Channel 218D Minor Change**

**ENGINEERING STATEMENT**

All required protections are met by contour non-overlap pursuant to Section 74.1204, with the exception of protection to KTSU, Lake Jackson, TX 215C3 and KROI, Seabrook, TX 221C1. KTSU and KROI are protected, as discussed below.

**PROTECTION TO KTSU AND KROI**

KTSU 215C3 (23 km at 38 degrees True from translator site) is a third adjacent-channel station to the proposed channel 218 translator facility. KROI 221C (25 km at 151 degrees True from translator site) is also a third adjacent-channel station to the proposed channel 218 translator facility. The 60 dBu F50,50 service contour of both KTSU and KROI extends beyond the 218D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KTSU and KROI.

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 KTSU at the proposed 218D transmitter site is greater than 67 dBu (the “desired” signal of KTSU). The F50,50 signal strength from KROI at the proposed 218D transmitter site is greater than 81 dBu (the “desired” signal of KROI). The second/third adjacent-channel protection is an undesired-to-desired (“U/D”) dB signal strength ratio of 40:1. Therefore, predicted interference to KTSU and KROI is a 218D signal of greater than or equal to 107 dBu.

The 107 dBu signal based on a free space field determination is predicted to extend out to 99 meters from the proposed 218D 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 400 meters.) Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KTSU and KROI are adequately protected by the proposed facility.