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ENGINEERING REPORT

K218EJ, to Alvin, TX, Channel 218D 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 KROI, Seabrook, TX 221C1. KROI is protected, as discussed below.

PROTECTION TO KROI

KROI 221C (11.7 km at 195 degrees True from translator site) is a third adjacent-channel station to the proposed channel 218 translator facility. The 60 dBu F50,50 service contour of KROI extends well beyond the 218D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to 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 KROI at the proposed 218D transmitter site is greater than 94 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 KROI is a 218D signal of greater than or equal to 134 dBu.

The 134 dBu signal based on a free space field determination is predicted to extend out to 14 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 140 meters.) Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KROI is adequately protected by the proposed facility.