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ENGINEERING REPORT

K218EJ, Alvin, TX, Channel 218D Minor Amendment

ENGINEERING STATEMENT

All required protections are met by contour non-overlap pursuant to Section 74.1204, with the exception of protection to KYBJ, Lake Jackson, TX 216C3 and KROI, Seabrook, TX 221C1. KYBJ and KROI are protected, as discussed below.

PROTECTION TO KYBJ AND KROI

KYBJ 216C3 (31.6 km at 194 degrees True from translator site) is a second adjacent-channel station to the proposed channel 218 translator facility. KROI 221C (1.3 km at 339 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 both KYBJ 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 KYBJ 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 KYBJ at the proposed 218D transmitter site is greater than 61 dBu (the “desired” signal of KYBJ). The F50,50 signal strength from KROI at the proposed 218D transmitter site is greater than 110 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 KYBJ and KROI is a 218D 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 992 meters from the proposed 218D transmitter site. As shown by the attached aerial photograph, there are no homes, buildings or roads within 992 meters of the proposed site. Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KYBJ and KROI are adequately protected by the proposed facility.

Proposed 218D Site

Aerial



N 29 17 17 W 95 13 54

Google Earth



1000 ft