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ENGINEERING REPORT

K265FF, to Seguin, TX, Channel 212D 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 KYFS, San Antonio, TX, 215C1. KYFS is protected, as discussed below.

PROTECTION TO KYFS

KYFS 215C1 (33 kilometers at 313 degrees True from translator site) is a third adjacent-channel station to the proposed channel 212 translator facility. The 60 dBu F50,50 service contour of KYFS extends well beyond the 212D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KYFS.

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 KYFS at the proposed 212D transmitter site is greater than 74 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 KYFS is a 212D signal of greater than or equal to 114 dBu.

The 114 dBu signal based on a free space field determination is predicted to extend out to 199 meters from the proposed 212D transmitter antenna. Attached is an aerial photo that shows the proposed 114 dBu free space loss (“FSL”) contour. The 114 dBu FSL contour does not include any homes, buildings or major roads. Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KYFS is adequately protected by the proposed facility.



900 ft

N 29 28 09.7 W 97 59 53.7



Google Earth