ENGINEERING STATEMENT – SECOND ADJACENT CHANNEL PROTECTION

KMVK, Fort Worth, TX, 298C1, is second adjacent-channel to the proposed channel 296 LPFM facility and is located only 46 kilometers (at 254 degrees True bearing) from the proposed LPFM transmitter site. The 60 dBu F50,50 service contour extends well beyond the LPFM transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KMVK.

Note that a rule waiver of Section 73.807 for this second 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 this station.

The F50,50 signal strength from KMVK at the proposed LPFM transmitter site is 71 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 KMVK from the proposed LPFM facility is a signal of greater than or equal to 111 dBu.

The 111 dBu signal based on a free space field determination is predicted to extend out to 100 meters from the proposed LPFM transmit antenna. The attached aerial photo demonstrates that there are no residences, buildings or major roads within 100 meters of the proposed tower. Therefore, KMVK is adequately protected by the proposed facility.

Google earth

feet 1000
meters 400