

ENGINEERING STATEMENT – SECOND ADJACENT CHANNEL PROTECTION

KBXX, Houston, TX, 250C (23.2 kilometers at 116 degrees True from LPFM site) is a second adjacent-channel station to the proposed channel 252 LPFM facility. The 60 dBu F50,50 service contour of KBXX 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 KBXX.

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 any station.

The F50,50 signal strength from KBXX at the proposed LPFM transmitter site is greater than 91 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 the worst-case of the above protected facility is an LPFM signal of greater than or equal to 131 dBu.

The 131 dBu signal based on a free space field determination is predicted to extend out to 17 meters from the proposed LPFM transmit antenna. The interfering signal level will not reach any point at ground level or at 2 meters above ground level. Therefore, KBXX is adequately protected by the proposed facility.