

## **ENGINEERING STATEMENT – SECOND ADJACENT CHANNEL PROTECTION**

WQUE-FM, New Orleans, LA, 227C, is second adjacent-channel to the proposed channel 229 LPFM facility and is located only 5.6 kilometers (at 127 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 WQUE-FM.

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 WQUE-FM at the proposed LPFM transmitter site is 108 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 WQUE-FM from the proposed LPFM facility is a signal of greater than or equal to 148 dBu.

The 148 dBu signal based on a free space field determination is predicted to extend out to 2 meters from the proposed LPFM transmit antenna and will not leave the rooftop. The interfering signal level will not reach any point at ground level or at 2 meters above ground level. The rooftop is currently restricted to the public and has existing communication facilities that transmit from it. Therefore, WQUE-FM is adequately protected by the proposed facility.