

ENGINEERING STATEMENT – SECOND ADJACENT CHANNEL PROTECTION

WYFB, Gainesville, FL, 213C1, is second adjacent-channel to the proposed channel 211 LPFM facility and is located only 25 kilometers (at 29 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 WYFB.

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 WYFB at the proposed LPFM transmitter site is 80 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 WYFB from the proposed LPFM facility is a signal of greater than or equal to 120 dBu.

The 120 dBu signal based on a free space field determination is predicted to extend out to 35 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, WYFB is adequately protected by the proposed facility.