

WAIVER REQUEST FOR 2ND ADJACENT CHANNEL SPACING
CALVARY TABERNACLE, INC.
NEW ROANOKE VIRGINIA LPFM
DECEMBER 2023

The applicant, Calvary Tabernacle, Inc., seeks a 2nd adjacent channel spacing (47 CFR § 73.807) waiver. Section 3(b)(2)(A) of the Local Community Radio Act of 2010 (LCRA) authorized the Commission to waive the second-adjacent channel spacing requirements provided that the LPFM applicant seeking such a waiver demonstrates that its proposed LPFM facilities “will not result in interference to any authorized radio service.” This Technical Statement shows that there is no population within the 2nd adjacent interference zone.

The proposed site is located within the protected 60 dB μ contour of 2nd adjacent station WSLC-FM Roanoke, Virginia on channel 235C. The predicted F(50-50) field strength of WSLC-FM at the proposed transmitter site is 95.9 dBu. Therefore, the predicted interfering signal contour F(50-10) generated by the proposed LPFM facility to WSLC-FM is an additional 40 dB μ or 135.9 dBu. The maximum distance to the 135.9 dBu interference contour is 11.2 meters from the transmitter.

The antenna tower site is at the First Christian Church at 344 Church Ave in Roanoke, Virginia. (See attached aerial view.) The church itself is at the front near the street and has a 3 story attachment at the rear. Because the antenna will be 15 meters above ground the interference zone will not reach within 3.8 meters from the ground. The tower is going to be near the front of the church and will be more than 11.2 meters from the 3 story attachment, so the interference zone will not reach it. In summary, the 2nd adjacent interference zone does not reach any population and, therefore, a waiver should be granted.