

APPLICATION FOR STATION LICENSE
FAMILY WORSHIP CENTER CHURCH, INC.
WFFL (FM) RADIO STATION
CH 219A - 91.7 MHZ - 0.31 KW (DA)
PANAMA CITY, FLORIDA
February 2007

TECHNICAL STATEMENT

This Technical Statement was prepared on behalf of Family Worship Center Church, Inc. ("FWCC"), permittee of radio station WFFL, Channel 219A, Panama City, Florida. FWCC herein submits a license application to cover the outstanding permit (BMPED-20060908AAY). FWCC is operating WFFL under limited program test authority, with its authorized directional antenna at 50% power. It is requested that the Commission review this submission and authorize full power operation for WFFL. A calculation of the transmitter power output of the WFFL transmitter is attached as Exhibit A. It is noted that as a result of the measurement of the directional antenna system, the vertical polarization power gain is slightly below that of the horizontal polarization gain. As such, the WFFL antenna is an elliptically polarized system.

There are seven operating conditions/restrictions on the WFFL permit. The first condition states that FWCC will reduce the power of WFFL, or cease operation as needed, to insure that persons with access to the tower will not be exposed to radio frequency radiation levels in excess of the Commission's guidelines. FWCC will comply with this requirement. The second condition is a waiver of §73.1125 to operate WFFL as a "satellite" of station WJFM, Baton Rouge, Louisiana. FWCC notes this condition.

The third condition relates to the location of the WFFL antenna supporting structure near AM station WDIZ, Panama City, Florida. The condition states that if the WFFL antenna is mounted on an existing tower that is not base-insulated or detuned at the AM frequency, FWCC will submit a certification to this effect. As Engineering Counsel for FWCC, the antenna supporting structure for WFFL is a cellular monopole. The pole is grounded and has no AM detuning apparatus. Further, there are two other communication towers located within a short distance of the monopole that are also not base insulated or equipped with detuning skirts. Therefore, the undersigned hereby certifies that the WFFL supporting structure is not base insulated, nor does it have any detuning apparatus.

The next four conditions (#4, #5, #6 and #7) relate to the use of a directional antenna system for WFFL. Attached as Exhibit B is an antenna proof of performance from Shively Labs (“Shively”), the manufacturer of the WFFL antenna system, demonstrating the compliance of the antenna system with the requirements and limits contained in the permit. The measured pattern (composite of horizontal and vertical) is within 85% of the envelope pattern submitted with the construction permit application. Further, attached as Exhibit C is a statement from an engineer that the antenna was assembled and installed in accordance with Shively’s specifications. Finally, attached as Exhibit D is a verification from a Land Surveyor that the antenna is oriented as specified by Shively.¹ Further, as detailed in Exhibit B, the power of WFFL at 80° is below the required limits; the relative field at 80° in the horizontal plane is 0.165, or a power level of 0.008 kilowatt. In the vertical plane, the relative field at 80° is 0.120, or a power of 0.004 kilowatt. Each is well below the limit of 0.01 kilowatt noted in the permit.

1) 255.0° true orientation.

Based on the foregoing, it is believed that WFFL is operating in compliance with the Commission's rules and that all conditions have been met. FWCC is operating WFFL at 50% power, awaiting approval from the Commission for full power operation.