

APPLICATION FOR STATION LICENSE
FAMILY WORSHIP CENTER CHURCH, INC.
WYRR (FM) RADIO STATION
CH 205A - 88.9 MHZ - 0.420 KW (DA)
LAKEWOOD, NEW YORK
February 2010

TECHNICAL STATEMENT

This Technical Statement was prepared on behalf of Family Worship Center Church, Inc. ("FWCC"), permittee of radio station WYRR, Channel 205A, Lakewood, New York. FWCC has an outstanding permit to construct for WYRR (BNPED-20071019AAY. FWCC herein submits a license application to cover the outstanding permit. As the permitted WYRR utilizes a directional antenna system, it is requested that the Commission review this submission and authorize full power operation for WYRR. Upon submission of this instant application, operation under limited program test will commence at 50% of authorized power. A calculation of the transmitter power output of the WYRR transmitter is attached as Exhibit A. It is noted that the antenna gain of the vertical polarization is less than that of the horizontal polarization. Therefore, the WYRR antenna system is elliptically polarized.¹

There are five operating conditions/restrictions on the WYRR permit. The first four conditions relate to the use of a directional antenna system for WYRR. Attached as Exhibit B is an antenna proof of performance from Propagation Systems, Inc. ("PSI"), the manufacturer of the WYRR antenna system, demonstrating compliance of the antenna system with the requirements and limits contained in the permit. The measured pattern is within 85% of the envelope pattern

1) The 60 dBu contour of the WYRR facility, based on the measured composite pattern, covers 100% of the community of Lakewood, New York.

submitted with the construction permit application.² Exhibit C is a statement from an engineer that the antenna was assembled and installed in accordance with PSI's specifications. Finally, attached as Exhibit D is a verification from a Land Surveyor that the antenna is oriented as specified by PSI.³

Further, as detailed in Exhibit B and noted in the permit, the power of WYRR between the azimuths of 250° around to 50° is below the required limit of 0.013 kilowatt (a relative field at or below 0.178). Therefore, the antenna system complies with the conditions relative to the use of the directional antenna system.

The last condition states that FWCC will reduce the power of WYRR, or cease operation in coordination with other users of the tower, to protect persons having access to the site from radio frequency electromagnetic fields in excess of FCC guidelines. FWCC will comply with this condition.

Based on the foregoing, it is believed that WYRR is operating in compliance with the Commission's rules and that all conditions have been met. Therefore, FWCC requests program test at full authorized power for WYRR.

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- 2) The RMS of the envelope pattern is 0.494. The RMS of the composite measured pattern is 0.454. Thus, the measured pattern reaches 91.9% of the RMS of the envelope pattern.
 - 3) 150° true orientation, as indicated on the installation drawing included in the PSI proof.