

APPLICATION FOR STATION LICENSE
FAMILY LIFE EDUCATIONAL FOUNDATION
KFLO-FM AUXILIARY RADIO STATION
CH 206C2 - 89.1 MHZ - 20.0 KW (DA) V
BLANCHARD, LOUISIANA
April 2010

TECHNICAL STATEMENT

This Technical Statement was prepared on behalf of Family Life Educational Foundation (“FLEF”), licensee of radio station KFLO-FM, Channel 206C2, Blanchard, Louisiana. FLEF has an outstanding permit to construct an auxiliary facility for KFLO-FM to be used when the main antenna system is out of service (BXPED-20100204ACS). FLEF herein submits a license application to cover the outstanding permit. As the permitted FLEF utilizes a directional antenna system, it is requested that the Commission review this submission and authorize full power operation for the KFLO-FM auxiliary. A calculation of the transmitter power output of the KFLO-FM auxiliary transmitter is attached as Exhibit A.

There are five operating conditions/restrictions on the KFLO-FM auxiliary permit. The first four conditions relate to the use of a directional antenna system for the KFLO-FM auxiliary facility. Attached as Exhibit B is an antenna proof of performance from Electronics Research, Inc. (“ERI”), the manufacturer of the KFLO-FM auxiliary antenna system, demonstrating compliance of the antenna system with the requirements and limits contained in the permit.¹ The measured pattern is within 85% of the envelope pattern submitted with the construction permit

1) The ERI documentation references the former call sign for KLFO-FM (KOUZ). The KFLO-FM auxiliary antenna is the former main antenna which was lowered on the tower. The proof was originally conducted in 2005 when the antenna was to be used for the main antenna.

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

Further, as detailed in Exhibit B and noted in the permit, the power of KFLO-FM auxiliary at various azimuths is below the required limit. The relative field at 150° is 0.256 (vertical), a power level of 1.32 kilowatts; the relative field at 160° is 0.245 (vertical), a power level of 1.20 kilowatts; the relative field at 170° is 0.258 (vertical), a power level of 1.33 kilowatts; the relative field at 180° is 0.278 (vertical), a power level of 1.55 kilowatts; the relative field at 190° is 0.273 (vertical), a power level of 1.50 kilowatts; the relative field at 200° is 0.258 (vertical), a power level of 1.34 kilowatts; and the relative field at 210° is 0.242 (vertical), a power level of 1.17 kilowatts. All azimuths are below the limit of 3.0 kilowatts. Therefore, the antenna system complies with the conditions relative to the use of the directional antenna system.

The final condition states that FLEF will reduce the power of KFLO-FM auxiliary antenna, 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. FLEF will comply with this condition.

Based on the foregoing, it is believed that KFLO-FM auxiliary antenna is ready to operate in compliance with the Commission's rules and that all conditions have been met.

2) 0° true orientation, as indicated on the installation drawing included in the ERI proof.