

**APPLICATION FOR STATION LICENSE**  
**FAMILY LIFE EDUCATIONAL FOUNDATION**  
**K212FX FM TRANSLATOR**  
**CH 212D - 90.3 MHZ - 0.25 KW**  
**SHREVEPORT, LOUISIANA**  
**November 2011**

**EXHIBIT A**

**K212FX Transmission System Calculations**

Effective Radiated Power: 0.25 kilowatt (horizontal/vertical)

Antenna: ERI 101A-2-HW  
Two bay half wavelength circular

Power Gain 0.63

Transmission Line: Andrew Corporation LDF4-50A  
(278 feet) 1/2 inch foam dielectric  
66.0% Efficiency

Required Transmitter Power Output  
To Reach Effective Radiated Power: 0.6013 kilowatt (601.3 watts)

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Facilities Authorized: Channel 212D - 90.3 MHz

Effective Radiated Power: 0.25 kilowatt (H/V)

Geographic Coordinates: North Latitude 32° 29' 57"  
West Longitude 93° 45' 03"

Antenna Center of Radiation: Above Ground 75.0 meters  
Above MSL 155.0 meters

Antenna Structure Registration #: 1013804