

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)

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