

APPLICATION FOR STATION LICENSE  
FAMILY WORSHIP CENTER CHURCH, INC.  
K214FC FM TRANSLATOR  
CH 214D - 90.7 MHZ - 0.092 KW  
YANKTON, SOUTH DAKOTA  
April 2014

EXHIBIT A

K216FC Transmission System Calculations

Effective Radiated Power:	0.092 Kilowatt (Horizontal/Vertical)
Antenna:	SWR FMEC/1
Power Gain	0.441
Transmission Line: (50 feet)	Cablewave FLC12-50J 1/2 inch foam dielectric 72.88 % Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.286 Kilowatt (286 watts)

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Facilities Authorized:	Channel 216D - 90.7 MHz
Effective Radiated Power:	0.092 Kilowatt (Horizontal/Vertical)
Geographic Coordinates:	North Latitude 42° 54' 29" West Longitude 97° 32' 13"
Antenna Center of Radiation:	Above Ground 58.0 meters Above MSL 530.0 meters
Antenna Structure Registration #:	1039350