

APPLICATION FOR STATION LICENSE
FAMILY WORSHIP CENTER CHURCH, INC.
W213BF FM TRANSLATOR STATION
CH 213D - 90.5 MHZ - 0.05 KW
KEY WEST, FLORIDA
October 2017

EXHIBIT A

W213BF Transmission System Calculations

Effective Radiated Power: 0.05 Kilowatt (Horizontal/Vertical)

Antenna: SWR FMEC-1
Single bay antenna
Power Gain 0.441

Transmission Line: Rosenberg RLCX-SL012R
(186 feet / 56.7 meters) 1/2 inch foam dielectric
75.8 % Efficiency

Required Transmitter Power Output
To Reach Effective Radiated Power: 0.150 Kilowatt (150 Watts)

Facilities Authorized: Channel 219D - 90.5 MHz

Effective Radiated Power: 0.05 Kilowatt (H/V)

Geographic Coordinates: North Latitude 24° 33' 18"
West Longitude 81° 48' 07"

Antenna Center of Radiation: Above Ground 31.0 meters
Above MSL 34.0 meters