

**APPLICATION FOR STATION LICENSE**  
**FORT WALTON BEACH EDUCATIONAL**  
**BROADCASTING FOUNDATION**  
**WPSM (FM) RADIO STATION**  
**CH 216C3 - 91.1 MHZ - 11.0 KW (DA)**  
**FORT WALTON BEACH, FLORIDA**  
**November 2007**

**EXHIBIT A**

**WPSM Transmission System Calculations**

Effective Radiated Power:

Horizontal	11.000 kilowatts
Vertical	10.781 kilowatts

Antenna:

Shively Labs 6810-3-DA  
3 bay full wavelength spaced

Horizontal gain (Horizontal polarization)  
(Vertical polarization)

3.377 (directional)  
3.310 (directional)

Transmission Line:  
(355 feet)

Andrew LDF5-50A  
7/8 inch foam dielectric  
75.1% Efficiency

Required Transmitter Power Output  
To Reach Effective Radiated Power:

4.337 kilowatts

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Facilities Authorized:

Channel 216C3 - 91.1 MHz

Effective Radiated Power:

11.0 kilowatts (H/V)

Geographic Coordinates:

North Latitude	30° 24' 38"
West Longitude	86° 37' 22"

Antenna Center of Radiation:

Above Ground	106.0 meters
Above MSL	110.0 meters
HAAT	105.0 meters

Antenna Structure Registration Number:

1228891