

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)	3.377 (directional)
(Vertical polarization)	3.310 (directional)
Transmission Line:	Andrew LDF5-50A
(355 feet)	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