

APPLICATION FOR STATION LICENSE
RADIO TRAINING NETWORK, INC.
WLFS (FM) RADIO STATION
CH 220C3 - 91.9 MHZ - 23.5 kW
PORT WENTWORTH, GEORGIA
May 2015

EXHIBIT C

WLFS FM Transmission System Calculations

Effective Radiated Power:	23.5 Kilowatts (Horizontal/Vertical)
Antenna:	Shively Labs 6810-6-DA 6 bay full wavelength spaced antenna
Power Gain:	5.762 Horizontal Polarization (DA) 5.647 Vertical Polarization (DA)
Transmission Line:	Andrew HJ7-50A
(97.5 meters / 320 feet)	1 5/8 inch air dielectric
Efficiency:	86.4%
Required Transmitter Power Output To Reach Effective Radiated Power:	4.7327 kilowatts (4,733 watts)

Facilities Authorized:	Channel 220 C3 - 91.9 MHz
Geographic Coordinates:	North Latitude 32° 09' 28" West Longitude 80° 59' 31"
Corrected Coordinates:	North Latitude 32° 09' 28" West Longitude 80° 59' 28"
Antenna Center of Radiation:	AMSL 105.0 meters HAAT 103.0 meters AGL 99.0 meters
ASRN:	1252033