

**APPLICATION FOR STATION LICENSE**  
**QANTUM OF CAPE COD LICENSE COMPANY, LLC**  
**WXTK (FM) RADIO STATION**  
**CH 236B - 95.1 MHz - 50.0 kW - DA**  
**WEST YARMOUTH, MASSACHUSETTS**  
**November 2013**

**EXHIBIT A**

**WXTK Transmission System Calculations:**

Effective Radiated Power:	50.0 Kilowatts (Horizontal and Vertical)
Antenna:	Shively Labs 5 bay - 1.0 wavelength antenna (DA)
Power Gain:	3.74
Transmission Line: (340 feet)	Cablewave HCC 300-50 3 " air dielectric 90.8% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	14.723 Kilowatts (14,723 watts)