

**APPLICATION FOR STATION LICENSE**  
**AND PROGRAM TEST AUTHORITY**  
**CODCOMM, INC.**  
**WFRQ FM RADIO STATION**  
**CH 228A - 93.5 MHZ - 6.0 KW (DA)**  
**HARWICH PORT, MASSACHUSETTS**  
**March 2013**

**EXHIBIT A**

**Codcomm, Inc. Transmission System Calculations**

Effective Radiated Power:	6.0 kilowatts (H/V)
Antenna:	Shively 6810-2R-SS(0.5)-DA 2 Bay Antenna
Power gain:	1.187 (Horizontal)
Transmission Line: (255 feet)	Andrew HJ7-50A 1 5/8 inch air dielectric 88.9% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	5.686 kilowatts (5,686 Watts)

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Facilities Authorized:	Channel 228A - 93.5 MHz
Effective Radiated Power:	6.0 kilowatt (H/V)
Geographic Coordinates:	North Latitude 41° 41' 30" West Longitude 70° 08' 50"
Antenna Center of Radiation:	Above Ground 72 meters Above MSL 85 meters HAAT 77 meters
Antenna Structure Registration:	1234471