

**APPLICATION FOR STATION LICENSE**  
**AND PROGRAM TEST AUTHORITY**  
**EAST CAROLINA RADIO, INC.**  
**WOBX-FM RADIO STATION**  
**CH 251C2 - 98.1 MHZ - 50.0 kW**  
**MANTEO, NORTH CAROLINA**  
**December 2014**

**EXHIBIT A**

**WOBX-FM Transmission System Calculations**

Effective Radiated Power: 50.0 Kilowatts (Horizontal/Vertical)

Antenna: Dielectric  
DCR C6 EP  
6 bay full wavelength spaced antenna

Power Gain: 3.2

Transmission Line: Andrew HJ8-50B  
(468 feet) 3 inch air dielectric  
86.1% Efficiency

Required Transmitter Power Output  
To Reach Effective Radiated Power: 18.15 Kilowatts (18,150 watts)

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Geographic Coordinates:	North Latitude	35° 51' 54"
	West Longitude	75° 39' 00"

Antenna Center of Radiation:	AMSL	137.0 meters
	HAAT	137.0 meters
	AGL	136.0 meters

ASRN: 1290758