

**APPLICATION FOR STATION LICENSE**  
**RADIO LICENSE HOLDING, CBC, LLC**  
**WXTA (FM) AUXILIARY FACILITY**  
**CH 250B1 - 97.9 MHz - 1.4 kW**  
**EDINBORO, PENNSYLVANIA**  
**June 2016**

**EXHIBIT A**

**WXTA (Auxiliary) Transmission System Calculations**

Effective Radiated Power:	1.4 Kilowatts (Horizontal/Vertical)
Antenna:	Shively 6813-3 3 bay full wavelength spaced antenna
Power Gain:	1.55
Transmission Line:	
(121.9 meters / 400 feet)	1 5/8 inch air dielectric
Efficiency:	82.8%
Required Transmitter Power Output To Reach Effective Radiated Power:	1.09 Kilowatts (1,090 watts)

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Geographic Coordinates:	North Latitude	42° 03' 21"
	West Longitude	80° 02' 24"

Antenna Center of Radiation:	AGL	56.0 meters
	AMSL	443.0 meters
	HAAT	111.0 meters

ASRN:	1026442
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