

**APPLICATION FOR STATION LICENSE**  
**CUMULUS LICENSING LLC**  
**WRQN RADIO STATION**  
**CH 228B1 - 93.5 MHZ - 7.0 KW**  
**BOWLING GREEN, OHIO**  
**September 2006**

**EXHIBIT A**

**WRQN Transmission System Calculations**

Effective Radiated Power: Horizontal/Vertical	7.0 kilowatts
Antenna:	Electronics Research, Inc. LPX-4E-HW 4 bay antenna system 1/2 wavelength
Horizontal gain	1.31
Transmission Line: (360 feet)	Andrew HJ7-50A 1 5/8 inch air dielectric 84.7% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	6.3087 kilowatts

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Facilities Authorized:	Channel 228B1 - 93.5 MHz
Effective Radiated Power:	7.0 kilowatts (H/V)
Geographic Coordinates:	North Latitude 41° 27' 28" West Longitude 83° 39' 33"
Antenna Center of Radiation:	Above Ground 113.0 meters Above MSL 315.0 meters HAAT 121.0 meters
Antenna Structure Registration #:	1015473