

**APPLICATION FOR STATION LICENSE**  
**CUMULUS LICENSING LLC**  
**WXKR (FM) RADIO STATION**  
**CH 233B - 94.5 MHZ - 30.0 KW (DA)**  
**PORT CLINTON, OHIO**  
**August 2008**

**EXHIBIT A**

**WXKR Transmission System Calculations**

Effective Radiated Power:	
Horizontal	30.0 kilowatts
Vertical	30.0 kilowatts
Antenna:	Electronics Research, Inc./Harris FML-6E-DA-HW 6 bay half wavelength spaced
Horizontal gain	4.0386 (directional)
Transmission Line:	Andrew HJ8-50B
(600 feet)	3 inch air dielectric 82.9% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	8.9605 kilowatts

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Facilities Authorized:	Channel 233B - 94.5 MHz
Effective Radiated Power:	30.0 kilowatts (H/V)
Geographic Coordinates:	North Latitude 41° 30' 03" West Longitude 83° 16' 16"
Antenna Center of Radiation:	Above Ground 189.0 meters Above MSL 374.0 meters HAAT 188.0 meters
Antenna Structure Registration #:	1065887