

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:	Andrew HJ7-50A
(360 feet)	1 5/8 inch air dielectric 84.7% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	6.3087 kilowatts

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