

APPLICATION FOR STATION LICENSE
CUMULUS LICENSING LLC
WWTN RADIO STATION
CH 259C0 - 99.7 MHZ - 100.0 KW
HENDERSONVILLE, TENNESSEE
April 2008

EXHIBIT A

WWTN Transmission System Calculations

Effective Radiated Power:	
Horizontal	100.0 kilowatts
Vertical	100.0 kilowatts
Antenna:	Electronics Research, Inc/Harris FMH-5
Horizontal gain	5 bay full wavelength spaced 2.7154
Transmission Line:	Myat 41001
(1,360 feet)	4 inch air dielectric - rigid 81.3 % Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	45.29 kilowatts

Facilities Authorized:	Channel 259C0 - 99.7 MHz
Effective Radiated Power:	100.0 kilowatts (H/V)
Geographic Coordinates:	North Latitude 35° 49' 03" West Longitude 86° 31' 24"
Antenna Center of Radiation:	Above Ground 400.0 meters Above MSL 604.0 meters HAAT 395.0 meters
Antenna Structure Registration #:	1063908