

APPLICATION FOR STATION LICENSE
CUMULUS LICENSING, LLC
WNBM (FM) AUXILIARY RADIO STATION
CH 280A - 103.9 MHZ - 1.3 KW
BRONXVILLE, NEW YORK
July 2014

EXHIBIT A

WNBM Transmission System Calculations:

Effective Radiated Power:	1.3 Kilowatts (Horizontal and Vertical)
Antenna System Gains / Losses	
Antenna:	Shively / 6810-2 2 bay - 0.5 Wavelength Antenna -1.55 dB
CIF / Branch Combiner:	-0.5 dB
Transmission Line: (25 feet / 7.62 meters)	Andrew / ½" Superflex -0.26 dB
Transmission Line: (50 feet / 15.24 meters)	Andrew / 1 5/8" Heliac -0.108 dB
Total System Loss:	-2.418 dB 57.306% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	2.27 Kilowatts (2,270 watts)

Channel:	280A - 103.9 MHz
Effective Radiated Power:	1.3 Kilowatts (Horizontal & Vertical)
Geographic Coordinates:	North Latitude 40° 52' 48" West Longitude 73° 52' 40"
Antenna Center of Radiation:	AGL 106.0 meters AMSL 161.0 meters HAAT 136.0 meters
Antenna Structure Registration Number:	1247379