

APPLICATION FOR STATION LICENSE
CUMULUS LICENSING LLC
W237DE FM TRANSLATOR STATION
CH 237D - 95.3 MHZ - 0.25 KW
HARRISBURG, PENNSYLVANIA
January 2018

EXHIBIT A

W237DE Transmission System Calculations

Effective Radiated Power:	0.25 Kilowatt (Horizontal/Vertical)
Antenna:	Scala Electronics CL-FM/H/V 2 FM yagi antenna system (one H / one V) 2.51 Power Gain
Transmission Line: (93 feet / 28.35 meters)	Andrew LDF4-50A 1/2 inch foam dielectric 86.7% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.115 kilowatt (115 Watts)

Facilities Authorized:	Channel 237D - 95.3 MHz
Effective Radiated Power:	0.25 Kilowatt (H/V)
Geographic Coordinates:	North Latitude 40° 18' 59" West Longitude 76° 57' 04"
Antenna Center of Radiation:	Above Ground 18.0 meters Above MSL 356.0 meters
Antenna Structure Registration #:	NA