

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: Andrew LDF4-50A
(93 feet / 28.35 meters) 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