

APPLICATION FOR STATION LICENSE
CUMULUS LICENSING LLC
W278AJ FM TRANSLATOR STATION
CH 278D - 103.5 MHZ - 0.2 KW
BLACKSBURG, VIRGINIA
July 2016

EXHIBIT A

W278AJ Transmission System Calculations

Effective Radiated Power:	0.2 Kilowatt (horizontal/vertical)
Antenna:	JAMPRO JLLP Single bay full wavelength antenna
Power Gain	0.475
Transmission Line:	Andrew LDF4-50A
(98 feet / 30 meters)	1/2 inch foam dielectric 85.08 % Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.495 Kilowatt (495 watts)

Facilities Authorized:	Channel 278D - 103.5 MHz
Effective Radiated Power:	0.2 Kilowatt (H/V)
Geographic Coordinates:	North Latitude 37° 11' 12" West Longitude 80° 28' 54"
Antenna Center of Radiation:	Above Ground 26.0 meters Above MSL 745.0 meters
Antenna Structure Registration #:	1053118