

APPLICATION FOR STATION LICENSE
MILLER COMMUNICATIONS, INC.
W290AY FM TRANSLATOR STATION
CH 290D - 105.9 MHz - 0.25 KW
SUMTER, SOUTH CAROLINA
June 2007

EXHIBIT A

W290AY Transmission System Calculations

Effective Radiated Power:	
Horizontal/Vertical	0.25 kilowatts
Antenna:	Shively Labs 6812-2
	2 bay full wavelength spaced antenna
Horizontal gain	0.9971
Transmission Line:	Andrew Corporation - LDF5-50A
(624 feet)	7/8 inch foam dielectric
	57.9% efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.433 kilowatts

Facilities Authorized:	Channel 290D - 105.9 MHz
Effective Radiated Power:	0.25 kilowatts (H/V)
Geographic Coordinates:	North Latitude 33° 54' 52"
	West Longitude 80° 17' 39"
Antenna Center of Radiation:	Above Ground 180.0 meters
	Above MSL 224.0 meters
Antenna Structure Registration #:	1044608