

**APPLICATION FOR STATION LICENSE**  
**POSITIVE ALTERNATIVE RADIO, INC.**  
**W292CU FM TRANSLATOR**  
**CH 292D - 106.3 MHZ - 0.01 KW**  
**CHRISTIANSBURG, VIRGINIA**  
**January 2011**

**EXHIBIT A**

**W292CU Transmission System Calculations**

Effective Radiated Power:	0.01 kilowatt (horizontal/vertical)
Antenna:	SWR FMEC-1 1 bay circularly polarized antenna
Power Gain	0.46
Transmission Line: (55 feet)	Andrew Corporation LDF4-50A 1/2 inch foam dielectric 91.4% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.0238 kilowatt (23.8 watts)

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Facilities Authorized:	Channel 292D - 106.3 MHz
Effective Radiated Power:	0.01 kilowatt (H/V)
Geographic Coordinates:	North Latitude 37° 11' 13" West Longitude 80° 27' 21"
Antenna Center of Radiation:	Above Ground 14.0 meters Above MSL 764.0 meters
Antenna Structure Registration #:	1238674