

**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: Andrew Corporation LDF4-50A  
(55 feet) 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