

**APPLICATION FOR STATION LICENSE**  
**CUMULUS LICENSING LLC**  
**W247AD FM TRANSLATOR**  
**CH 247D - 97.3 MHZ - 0.01 KW**  
**VINTON, VIRGINIA**  
**July 2005**

**EXHIBIT A**

**W247AD Transmission System Calculations**

Effective Radiated Power:	
Horizontal	0.01 kilowatt
Vertical	0.01 kilowatt
Antenna:	Scala CL-FM 1 bay horizontally polarized
Antenna System Power Gain	7.0
Transmission Line:	Cablewave Systems
(115 feet)	7/8 inch foam dielectric 90.9% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.0016 kilowatts (1.6 watts)

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Facilities Authorized:	Channel 247D - 97.3 MHz
Effective Radiated Power:	0.01 kilowatt (Horizontal)
Geographic Coordinates:	North Latitude 37° 21' 53" West Longitude 79° 51' 57"
Antenna Center of Radiation:	Above Ground 31.0 meters Above MSL 624.0 meters
Antenna Structure Registration #:	N/A