

**APPLICATION FOR STATION LICENSE**  
**PEG BROADCASTING, LLC**  
**WOWC RADIO STATION**  
**AUXILIARY ANTENNA SYSTEM**  
**CH 287A - 105.3 MHZ - 0.85 KW**  
**MORRISON, TENNESSEE**  
**February 2009**

**EXHIBIT A**

**WOWC Auxiliary Transmission System Calculations**

Effective Radiated Power:	
Horizontal/Vertical	0.85 kilowatt
Antenna:	SWR FMEC/2-DF
	2 bay full wavelength spaced antenna
Horizontal gain	1.0
Transmission Line:	Andrew LDF5-50A
(115 feet)	7/8 inch foam
	90.5% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.939 kilowatt (939 watts)

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Facilities Authorized:	Channel 287A - 105.3 MHz
Effective Radiated Power:	0.85 kilowatt (H/V)
Geographic Coordinates:	North Latitude 35° 40' 51"
	West Longitude 85° 46' 32"
Antenna Center of Radiation:	Above Ground 26.0 meters
	Above MSL 325.0 meters
	HAAT -8.0 meters
Antenna Structure Registration #:	N/A