

**APPLICATION FOR STATION LICENSE**  
**PEG BROADCASTING, LLC**  
**WOWC RADIO STATION**  
**NEW FM AUXILIARY ANTENNA SYSTEM**  
**CH 287A - 105.3 MHZ - 0.83 KW**  
**MORRISON, TENNESSEE**  
**October 2008**

**EXHIBIT A**

**WOWC Transmission System Calculations**

Effective Radiated Power: Horizontal/Vertical	0.83 kilowatt
Antenna:	SWR FMEC/2-DF 2 bay full wavelength spaced antenna
Horizontal gain	1.0
Transmission Line: (115 feet)	Andrew LDF5-50A 7/8 inch foam 90.5% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.917 kilowatt (917 watts)
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Facilities Authorized:	Channel 287A - 105.3 MHz
Effective Radiated Power:	0.83 kilowatt (H/V)
Geographic Coordinates:	North Latitude 35° 41' 42" West Longitude 85° 46' 33"
Antenna Center of Radiation:	Above Ground 26.0 meters Above MSL 316.0 meters HAAT -6.0 meters
Antenna Structure Registration #:	N/A