

**APPLICATION FOR STATION LICENSE**  
**F.T.G. BROADCASTING, INC.**  
**WWEL (FM) RADIO STATION**  
**CH 280A - 103.9 MHZ - 2.55 KW**  
**LONDON, KENTUCKY**  
**October 2002**

**EXHIBIT A**

**WWEL Transmission System Calculations**

Effective Radiated Power:	
Horizontal	2.55 kilowatts
Vertical	2.55 kilowatts
Antenna:	Electronics Research LPX-4E-HW
	4 bay ½ wavelength spaced
Horizontal gain	1.307
Transmission Line:	Andrew Corp. HJ7-50A
(530 feet)	1 5/8 inch air dielectric
	77.3% efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	2.524 kilowatts

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Facilities Channel/Class:	Channel 280A - 103.9 MHz
Effective Radiated Power:	2.55 kilowatts (H/V)
Geographic Coordinates:	North Latitude 37° 08' 30"
	West Longitude 84° 04' 45"
Antenna Center of Radiation:	Above Ground 102.0 meters
	Above MSL 468.0 meters
	HAAT 108.0 meters
FCC Tower Registration Number:	1232293