

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:
(530 feet)

Andrew Corp. HJ7-50A
1 5/8 inch air dielectric
77.3% efficiency

Required Transmitter Power Output
To Reach Effective Radiated Power:

2.524 kilowatts

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