

APPLICATION FOR STATION LICENSE
MILLER COMMUNICATIONS, INC.
WIGL (FM) RADIO STATION
CH 230A - 93.9 MHZ - 1.75 KW
ST. MATTHEWS, SOUTH CAROLINA
June 2004

EXHIBIT A

WIGL Transmission System Calculations

Effective Radiated Power:

Horizontal	1.75 kilowatts
Vertical	1.75 kilowatts

Antenna:

Electronics Research
2 bay half wavelength spaced
Horizontal gain 0.702

Transmission Line:
(490 feet)

Andrew HJ7-50A
1 5/8 inch air dielectric
82% efficiency

Required Transmitter Power Output
To Reach Effective Radiated Power:

3.04 kilowatts

Facilities Authorized:

Channel 230A - 93.9 MHz

Effective Radiated Power:

1.75 kilowatts (H/V)

Geographic Coordinates:

North Latitude	33° 45' 46"
West Longitude	80° 49' 23"

Antenna Center of Radiation:

Above Ground	145.0 meters
Above MSL	241.0 meters
HAAT	185.0 meters

Antenna Structure Registration #:

1238927