

APPLICATION FOR STATION LICENSE
MAGIC BROADCASTING ALABAMA LICENSING LLC
WJRL-FM RADIO STATION
CH 280C3 - 103.9 MHZ - 25.0 KW
FORT RUCKER, ALABAMA
April 2009

EXHIBIT A

WJRL-FM Transmission System Calculations

Effective Radiated Power: 25.0 kilowatts (H/V)

Antenna: Shivley Labs, Model 6813-6
6 bay full wavelength spaced

Power gain: 3.28

Transmission Line: Andrew HJ7-50A
(325 feet) 1 5/8 inch air
85.4% Efficiency

Required Transmitter Power Output
To Reach Effective Radiated Power: 8.925 kilowatts

Facilities Authorized: Channel 280C3 - 103.9 MHz

Effective Radiated Power: 25.0 kilowatts (H/V)

Geographic Coordinates: North Latitude 31° 26' 25"
West Longitude 85° 33' 49"

Antenna Center of Radiation: Above Ground 77.0 meters
Above MSL 179.0 meters
HAAT 89.0 meters

Antenna Structure Registration #: 1037907