

APPLICATION FOR STATION LICENSE
QANTUM OF AUBURN LICENSE COMPANY, LLC.
WCJM-FM RADIO STATION
CH 265A - 100.9 MHZ - 6.0 KW
WEST POINT, GEORGIA
July 2014

EXHIBIT A

WCJM-FM Transmission System Calculations:

Effective Radiated Power: 6.0 Kilowatts (Horizontal/Vertical)

Antenna: Electronics Research, Inc.
LPX-4E
4 bay full wavelength spaced

Power Gain: 2.1332

Transmission Line: Andrew HJ7-50A
(125 feet) 1 5/8 " foam dielectric
94.2% Efficiency

Required Transmitter Power Output
To Reach Effective Radiated Power: 2.99 Kilowatts (2,990 watts)

Channel: 265A - 100.9 MHZ

Effective Radiated Power: 6.0 kilowatts (H/V)

Geographic Coordinates: North Latitude 32° 51' 15"
West Longitude 85° 08' 08"

Antenna Center of Radiation: AGL 36.0 meters
AMSL 304.0 meters
HAAT 96.0 meters

ASRN: 1286968