

**APPLICATION FOR STATION LICENSE**  
**BOARD OF TRUSTEES AUBURN UNIVERSITY**  
**WEGL (FM) RADIO STATION**  
**CH 216A - 91.1 MHZ - 1.8 kW**  
**AUBURN, ALABAMA**  
**October 2017**

**EXHIBIT A**

**WEGL Transmission System Calculations**

Effective Radiated Power:	1.8 Kilowatt (Horizontal/Vertical) (Directional)
Antenna:	ERI LP 2E Two bay full wavelength antenna
Power Gain	0.9971
Transmission Line: (425 feet / 129.5 meters)	Andrew HJ7-50A 1 5/8 inch air dielectric 82.62 % Efficiency
Misc connectors	0.2 dB Loss 95.5 % Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	2.28 kilowatts (2,280 Watts)

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Facilities Authorized:	Channel 216A - 91.1 MHZ
Effective Radiated Power:	1.8 Kilowatt (H/V)
Geographic Coordinates:	North Latitude 32° 36' 01" West Longitude 85° 29' 53"
Antenna Center of Radiation:	Above Ground 86.0 meters Above MSL 274.0 meters HAAT 90.0 meters
Antenna Structure Registration #:	1250360