

**APPLICATION FOR STATION LICENSE**

**WSAA LLC**

**WSAA (FM) RADIO STATION**

**CH 226A - 93.1 MHZ - 3.5 KW**

**BENTON, TENNESSEE**

**August 2008**

**EXHIBIT A**

**WSAA Transmission System Calculations**

Effective Radiated Power:	3.5 kilowatts H/V
Antenna:	Electronics Research, Inc. LPX-2E 2 bay full wavelength spaced
Horizontal gain	0.9971
Transmission Line: (428 feet)	Cablewave FLC158-50 1 5/8 inch air dielectric 80.6% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	4.355 kilowatts

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Facilities Authorized:	Channel 226A - 93.1 MHz
Effective Radiated Power:	3.5 kilowatts (H/V)
Geographic Coordinates:	North Latitude 35° 09' 54" West Longitude 84° 51' 13"
Antenna Center of Radiation:	Above Ground 94.0 meters Above MSL 390.0 meters HAAT 133.0 meters
Antenna Structure Registration #:	1036626