

**APPLICATION FOR STATION LICENSE**  
**MID-SOUTH PUBLIC COMMUNICATIONS FOUNDATION**  
**WKNP RADIO STATION**  
**CH 211C2 - 90.1 MHZ - 18.0 KW**  
**JACKSON, TENNESSEE**  
**December 2007**

**EXHIBIT A**

**WKNP Transmission System Calculations**

Effective Radiated Power:	
Horizontal/Vertical	18.0 kilowatts
Antenna:	Shively Labs. 6813-6
Horizontal gain	6 bay full wavelength spaced antenna 3.28
Transmission Line:	Cablewave Systems HCC300-50
(625 feet)	3 inch air dielectric 84.1% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	6.5253 kilowatts

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Facilities Authorized:	Channel 211C2 - 90.1 MHz
Effective Radiated Power:	18.0 kilowatts (H/V)
Geographic Coordinates:	North Latitude 35° 38' 49" West Longitude 88° 50' 00"
Antenna Center of Radiation:	Above Ground 119.0 meters Above MSL 282.0 meters HAAT 156.0 meters
Antenna Structure Registration #:	1043911