

**APPLICATION FOR STATION LICENSE**  
**RAPID BROADCASTING COMPANY**  
**KWSD-DT TELEVISION STATION**  
**CH 51 - 692-698 MHZ - 4.1 KW**  
**SIOUX FALLS, SOUTH DAKOTA**  
**June 2006**

**EXHIBIT A**

**KWSD-DT Transmission System Calculations**

Effective Radiated Power:	
Horizontal	4.1 kilowatts
Antenna:	Dielectric Communications TUP-04-2-1
Horizontal gain (maximum):	Power gain 5.2 (7.16 dB)
Transmission Line:	Dielectric EIA/DCA 6 1/8 inch
(800 feet)	6 1/8 inch rigid air dielectric 78.7% efficiency 1.04 db attenuation
Required Transmitter Power Output To Reach Effective Radiated Power (peak):	1.0 kilowatts

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Facilities Authorized:	Channel 51 (692-698 MHz)
Effective Radiated Power:	4.1 kW (H)
Geographic Coordinates:	North Latitude   43° 30' 19" West Longitude   96° 34' 19"
Antenna Center of Radiation:	Above Ground   225.0 meters Above MSL       637.0 meters HAAT            209.0 meters
FCC Tower Registration Number:	1206712