

**APPLICATION FOR STATION LICENSE**  
**CUMULUS LICENSING LLC**  
**KIKN-FM RADIO STATION**  
**CH 263C1 - 100.5 MHZ - 100.0 KW**  
**SALEM, SOUTH DAKOTA**  
**November 2007**

**EXHIBIT A**

**KIKN-FM Transmission System Calculations**

Effective Radiated Power:	
Maximum	100.0 kilowatts H/V
Antenna:	Continental/ERI G5CPS-12 12 bay full wavelength spaced
Horizontal gain	6.8781
Transmission Line:	Cablewave Systems HCC30-50J
(975 feet)	3 inch air dielectric 75.1% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	19.359 kilowatts

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Facilities Authorized:	Channel 263C1 - 100.5 MHZ
Effective Radiated Power:	100.0 kilowatts (H/V)
Geographic Coordinates:	North Latitude 43° 29' 22" West Longitude 97° 26' 13"
Antenna Center of Radiation:	Above Ground 285.0 meters Above MSL 721.0 meters HAAT 287.0 meters
Antenna Structure Registration Number:	1047119