

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: (975 feet)	Cablewave Systems HCC30-50J 3 inch air dielectric 75.1% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	19.359 kilowatts

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