

**APPLICATION FOR STATION LICENSE**  
**MILLER COMMUNICATIONS, INC.**  
**W254CE FM TRANSLATOR STATION**  
**CH 254D - 98.7 MHZ - 0.25 KW**  
**ORANGEBURG, SOUTH CAROLINA**  
**December 2016**

**EXHIBIT A**

**W254CE Transmission System Calculations**

Effective Radiated Power: 0.25 Kilowatt (horizontal/vertical)

Antenna: CA5-FM-CP-RM  
Single bay full wavelength antenna

Power Gain 3.98

Transmission Line: Andrew LDF5-50A  
(394 feet / 120 meters) 7/8 inch foam dielectric  
73 % Efficiency

Required Transmitter Power Output  
To Reach Effective Radiated Power: 0.086 Kilowatt (86 watts)

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Facilities Authorized: Channel 254D - 98.7 MHz

Effective Radiated Power: 0.25 Kilowatt (H/V)

Geographic Coordinates: North Latitude 33° 26' 35"  
West Longitude 80° 48' 16"

Antenna Center of Radiation: Above Ground 105.0 meters  
Above MSL 160.0 meters

Antenna Structure Registration #: 1242373