

**APPLICATION FOR STATION LICENSE**  
**RADIO LICENSE HOLDING CBC, LLC**  
**WWLS-FM AUXILIARY FM ANTENNA**  
**WWLS-FM RADIO STATION**  
**CH 251C1 - 98.1 MHZ - 8.5 KW**  
**THE VILLAGE, OKLAHOMA**  
**October 2011**

**EXHIBIT A**

**WWLS-FM Auxiliary Transmission System Calculations**

Effective Radiated Power: 8.5 kilowatts (Horizontal/Vertical)

Antenna: Jampro JMPC-2  
2 bay full wavelength spaced  
Horizontal gain 1.0 (power gain)

Transmission Line: Andrew Corp HJ7-50A  
(300 feet) 1 5/8" air dielectric  
86.8% Efficiency

Required Transmitter Power Output  
To Reach Effective Radiated Power: 9.79 kilowatts

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Facilities Authorized: Channel 251C1 - 98.1 MHz

Effective Radiated Power: 8.50 kilowatts (H/V)

Geographic Coordinates: North Latitude 35° 34' 11"  
West Longitude 97° 30' 01"

Antenna Center of Radiation: Above Ground 88.0 meters  
Above MSL 445.0 meters  
Above HAAT 96.0 meters

Antenna Structure Registration #: 1232200