

**APPLICATION FOR STATION LICENSE**  
**J. L. BREWER BROADCASTING, L.L.C.**  
**W227AK FM TRANSLATOR STATION**  
**CH 227D - 93.3 MHZ - 0.13 KW (DA)**  
**CHATTANOOGA, TENNESSEE**  
**May 2007**

**EXHIBIT A**

**W227AK Transmission System Calculations**

Effective Radiated Power:	
Horizontal	0.13 kilowatt
Vertical	0.13 kilowatt
Antenna:	Scala CA5-FM/CP/RM 5 element circularly polarized antenna
Antenna System Power Gain	3.981
Transmission Line:	Andrew LDF4-50A
(150 feet)	½ foam dielectric 79.6% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.0410 kilowatt (41 watts)

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Facilities Authorized:	Channel 227D - 93.3 MHz
Effective Radiated Power:	0.13 kilowatt (H/V)
Geographic Coordinates:	North Latitude   35° 01' 21" West Longitude   85° 15' 42"
Antenna Center of Radiation:	Above Ground   27.0 meters Above MSL       332.0 meters
Antenna Structure Registration #:	1224785