

**APPLICATION FOR STATION LICENSE**  
**OKLAHOMA COMMUNITY TELEVISION, LLC**  
**K43KT-D DIGITAL LPTV TRANSLATOR STATION**  
**CH 43 - (644-650) MHZ - 0.46 KW**  
**ELK CITY, OKLAHOMA**  
**May 2010**

**EXHIBIT A**

**K43KT-D LPTV Translator Transmission System Calculations**

Effective Radiated Power:	0.46 kilowatt horizontal
Antenna:	Kathrein/Scala 770-881
Horizontal gain (maximum):	Power gain 6.310 (11.4 dB)
Transmission Line: (302 feet)	Andrew Corporation HJ7-50A 1 5/8 inch air dielectric 68.2% efficiency
Combiner:	Insertion loss : 0.5 dB 89.125% efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.1199 kilowatt (119.9 watts)
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Facilities Authorized:	Channel 43 - 644-650 MHz
Effective Radiated Power:	0.46 kilowatt (H)
Geographic Coordinates:	North Latitude 35° 21' 25" West Longitude 99° 16' 08"
Antenna Center of Radiation:	Above Ground 89.0 meters Above AMSL 691.0 meters
Antenna Structure Registration # :	1010044