

**APPLICATION FOR STATION LICENSE**  
**OKLAHOMA COMMUNITY TELEVISION, LLC**  
**K42IC-D DIGITAL LPTV TRANSLATOR STATION**  
**CH 42 - (638-644) MHZ - 0.515 KW**  
**WEATHERFORD, OKLAHOMA**  
**February 2010**

**EXHIBIT A**

**K42IC-D LPTV Translator Transmission System Calculations**

Effective Radiated Power:	
Horizontal	0.515 kilowatt
Antenna:	Kathrein/Scala 770-881
Horizontal gain (maximum):	Power gain 6.310 (11.4 dB)
Transmission Line:	Andrew Corporation HJ7-50A
(210 feet)	1 5/8 inch air dielectric 76.8% efficiency
Combiner:	Insertion loss : 0.5 dB 89.125% efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.1192 kilowatt (119.2 watts)
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Facilities Authorized:	Channel 42 - 638-644 MHz
Effective Radiated Power:	0.515 kilowatt (H)
Geographic Coordinates:	North Latitude 35° 29' 29" West Longitude 98° 43' 54"
Antenna Center of Radiation:	Above Ground 57.0 meters Above AMSL 598.6 meters HAAT 93.3 meters
Antenna Structure Registration # :	N/A