

APPLICATION FOR STATION LICENSE
OKLAHOMA COMMUNITY TELEVISION, LLC
K42IB-D DIGITAL LPTV TRANSLATOR STATION
CH 42 - (638-644) MHZ - 0.390 KW
SAYRE, OKLAHOMA
July 2010

EXHIBIT A

K42B-D LPTV Translator Transmission System Calculations

Effective Radiated Power:	0.39 kilowatt (horizontal)
Antenna:	Kathrein/Scala 770-881
Horizontal gain (maximum):	Power gain 6.310 (8.0 dB)
Transmission Line: (416 feet)	Andrew Corporation HJ7-50A 1 5/8 inch air dielectric 59.2% efficiency
Combiner:	Insertion loss : 0.5 dB 89.125% efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.1171 kilowatt (117.1 watts)
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Facilities Authorized:	Channel 42 - 638-644 MHz
Effective Radiated Power:	0.39 kilowatt (H)
Geographic Coordinates:	North Latitude 35° 09' 05" West Longitude 99° 42' 50"
Antenna Center of Radiation:	Above Ground 124.0 meters Above AMSL 739.7 meters
Antenna Structure Registration # :	1010043