

APPLICATION FOR STATION LICENSE
OKLAHOMA COMMUNITY TELEVISION, LLC
K43KS-D TV TRANSLATOR STATION
CH 43 - 644-650 MHZ - 0.450 KW
ALTUS, OKLAHOMA
July 2010

EXHIBIT A

K43KS-D LPTV/TV Translator Transmission System Calculations

Effective Radiated Power:	0.45 kilowatt horizontal
Antenna:	Kathrein/Scala 770-881
Horizontal gain (maximum):	Power gain 6.310 (8.0 dB)
Transmission Line: (317 feet)	Andrew Corporation HJ7-50A 1 5/8 inch air dielectric 66.9% efficiency
Combiner:	Insertion loss : 0.5 dB 89.125% efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.1196 kilowatt (119.6 watts)

Facilities Authorized:	Channel 43 - 644-650 MHz
Effective Radiated Power:	0.45 kilowatt (H)
Geographic Coordinates:	North Latitude 34° 38' 21" West Longitude 99° 21' 19"
Antenna Center of Radiation:	Above Ground 93.7 meters Above AMSL 512.8 meters
Antenna Structure Registration # :	1062285