

APPLICATION FOR STATION LICENSE
OKLAHOMA COMMUNITY TELEVISION, LLC
K23IY-D DIGITAL LPTV TRANSLATOR STATION
CH 23 - (524-530) MHZ - 0.530 KW
WEATHERFORD, OKLAHOMA
February 2010

EXHIBIT A

K23IY-D LPTV Translator Transmission System Calculations

Effective Radiated Power: Horizontal	0.530 kilowatt
Antenna:	Kathrein/Scala 770-881
Horizontal gain (maximum):	Power gain 6.310 (11.4 dB)
Transmission Line: (210 feet)	Andrew Corporation HJ7-50A 1 5/8 inch air dielectric 78.9% efficiency
Combiner:	Insertion loss : 0.5 dB 89.125% efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.1194 kilowatt (119.4 watts)
Facilities Authorized:	Channel 23 - 524-530 MHz
Effective Radiated Power:	0.530 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