

APPLICATION FOR STATION LICENSE
OKLAHOMA COMMUNITY TELEVISION, LLC
K45JZ-D DIGITAL LPTV TRANSLATOR STATION
CH 45 - (656-662) MHZ - 0.45 KW
ELK CITY, OKLAHOMA
May 2010

EXHIBIT A

K45JZ-D LPTV Translator Transmission System Calculations

Effective Radiated Power:	0.45 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 67.9% efficiency
Combiner:	Insertion loss : 0.5 dB 89.125% efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.1178 kilowatt (117.8 watts)
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Facilities Authorized:	Channel 45 - 656-662 MHz
Effective Radiated Power:	0.45 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