

NEW LPTV TRANSLATOR APPLICATION
OKLAHOMA COMMUNITY TELEVISION, LLC
NEW DIGITAL LPTV TRANSLATOR STATION
CH 25 - (546-542 MHZ) - 0.470 KW
ELK CITY, OKLAHOMA
January 2010

EXHIBIT C

New LPTV/TV Translator Transmission System Calculations

Effective Radiated Power: Horizontal	0.47 kilowatt (maximum)
Antenna:	Kathrein/Scala Model 770-881
Horizontal gain (maximum):	Power gain 6.310 (8.0 dB)
Transmission Line: (302 feet)	Andrew Corporation HJ7-50A 1 5/8 inch air dielectric 70.8% efficiency
TV Filter:	Insertion loss : 0.5 dB 89.125% efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.1180 kilowatt (118 watts)