

APPLICATION FOR STATION LICENSE
OKLAHOMA COMMUNITY TELEVISION, LLC
K42AG-D DIGITAL LPTV TRANSLATOR STATION
CH 42 - (638-644) MHZ - 0.43 KW
STRONG CITY, OKLAHOMA
May 2010

EXHIBIT A

K42AG-D LPTV Translator Transmission System Calculations

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|---|---|
| Effective Radiated Power: | 0.43 kilowatt horizontal |
| Antenna: | Kathrein/Scala 770-881 |
| Horizontal gain (maximum): | Power gain 6.310 (8.0 dB) |
| Transmission Line: (351 feet) | Andrew Corporation HJ7-50A 1 5/8 inch air dielectric 64.3% efficiency |
| Combiner: | Insertion loss : 0.5 dB 89.125% efficiency |
| Required Transmitter Power Output To Reach Effective Radiated Power: | 0.1189 kilowatt (118.9 watts) |

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|------------------------------------|--|
| Facilities Authorized: | Channel 42 - 638-644 MHz |
| Effective Radiated Power: | 0.43 kilowatt (H) |
| Geographic Coordinates: | North Latitude 35° 46' 58" West Longitude 99° 35' 13" |
| Antenna Center of Radiation: | Above Ground 104.0 meters Above AMSL 817.0 meters |
| Antenna Structure Registration # : | 1010041 |