

**APPLICATION FOR STATION LICENSE**  
**LEGEND COMMUNICATIONS OF WYOMING, LLC**  
**KLGT RADIO STATION**  
**CH 243C1 - 96.5 MHZ - 100.0 KW**  
**BUFFALO, WYOMING**  
**February 2011**

**EXHIBIT A**

**KLGT Transmission System Calculations**

Effective Radiated Power:

Horizontal	100.0 kilowatts
Vertical	100.0 kilowatts

Antenna:

Electronics Research, Inc.  
SHPX-8AC  
8 bay full wavelength spaced  
4.4872

Horizontal gain

Transmission Line:  
(455 feet)

Andrew Corporation HJ11-50A  
4 inch air dielectric  
89.2% Efficiency

Transmission Line:  
(40 feet)

Myat  
3 inch air dielectric - rigid  
99.1% Efficiency

Required Transmitter Power Output  
To Reach Effective Radiated Power:

25.21 kilowatts

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Facilities Authorized:

Channel 243C1 - 96.5 MHZ

Effective Radiated Power:

100.0 kilowatts (H/V)

Geographic Coordinates:

North Latitude 44° 34' 32"  
West Longitude 106° 52' 23"

Antenna Center of Radiation:

Above Ground	140.0 meters
Above MSL	1701.0 meters
HAAT	109.0 meters

Antenna Structure Registration Number:

1236144