

APPLICATION FOR STATION LICENSE
LEGEND COMMUNICATIONS OF WYOMING, LLC
KLGT RADIO STATION
CH 243C1 - 96.5 MHZ - 100.0 KW
BUFFALO, WYOMING
January 2012

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
Horizontal gain	4.4872
Transmission Line:	Andrew Corporation HJ11-50A
(455 feet)	4 inch air dielectric 89.0% Efficiency
Transmission Line:	Myat
(40 feet)	3 1/8 inch air dielectric - rigid 99.16% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	25.25 kilowatts

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' 22"
Antenna Center of Radiation:	Above Ground 140.0 meters Above MSL 1697.0 meters HAAT 101.0 meters
Antenna Structure Registration Number:	1236144