

**APPLICATION FOR STATION LICENSE**  
**LEGEND COMMUNICATIONS OF WYOMING, LLC**  
**KZMQ-FM RADIO STATION**  
**CH 262C - 100.3 MHZ - 56.0 KW**  
**GREYBULL, WYOMING**  
**June 2004**

**EXHIBIT A**

**KZMQ-FM Transmission System Calculations**

Effective Radiated Power:	
Horizontal	56.0 kilowatts
Vertical	56.0 kilowatts
Antenna:	Electronics Research, Inc. SHPX-5AC 5 bay full wavelength
Horizontal gain	2.639
Transmission Line:	Andrew Corp. HJ8-50B
(48 feet)	3 inch air dielectric 98.5% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	21.54 kilowatts

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Facilities Authorized:	Channel 262C - 100.3 MHz
Effective Radiated Power:	56.0 kilowatts (H/V)
Geographic Coordinates:	North Latitude   44° 48' 41" West Longitude 107° 55' 06"
Antenna Center of Radiation:	Above Ground   18.0 meters Above MSL       2960.0 meters HAAT            745.0 meters
Antenna Structure Registration #:	N/A