

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: (48 feet)	Andrew Corp. HJ8-50B 3 inch air dielectric 98.5% Efficiency
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Required Transmitter Power Output To Reach Effective Radiated Power:	21.54 kilowatts
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Facilities Authorized:	Channel 262C - 100.3 MHz
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Effective Radiated Power:	56.0 kilowatts (H/V)
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Geographic Coordinates:	North Latitude 44° 48' 41" West Longitude 107° 55' 06"
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Antenna Center of Radiation:	Above Ground 18.0 meters Above MSL 2960.0 meters HAAT 745.0 meters
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Antenna Structure Registration #:	N/A
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