

**AMENDMENT TO BLH-20021113AAP**  
**LEGEND COMMUNICATIONS OF WYOMING, LLC**  
**KZZS (FM) RADIO STATION**  
**CH 252C1 - 98.3 MHZ - 100.0 KW**  
**STORY, WYOMING**  
**February 2003**

**EXHIBIT A**

**KZZS Transmission System Calculations**

Effective Radiated Power:

Horizontal	100.0 kilowatts
Vertical	100.0 kilowatts

Antenna:

ERI SHPX-8AC  
8 bay full wavelength  
4.4872

Horizontal gain

Transmission Line:  
(97 feet)

Andrew HJ8-50B  
3 inch air dielectric  
89.0% efficiency

Required Transmitter Power Output  
To Reach Effective Radiated Power:

25.04 kilowatts

---

Facilities Authorized:

Channel 252C1 - 98.3 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 114.0 meters  
Above MSL 1675.0 meters  
HAAT 83.0 meters

FCC Tower Registration Number:

1236144