

**APPLICATION FOR STATION LICENSE**  
**GGB LAS VEGAS LLC**  
**KVGS AUXILIARY FM ANTENNA**  
**KVGS RADIO STATION**  
**CH 300C - 107.9 MHZ - 2.50 KW (DA)**  
**MEADVIEW, ARIZONA**  
**November 2012**

**EXHIBIT A**

**KVGS Auxiliary Transmission System Calculations**

Effective Radiated Power: 2.50 kilowatts (Horizontal/Vertical)

Antenna: ERI MP-2E-DA-HW  
2 bay half wavelength spaced  
Horizontal gain 1.705

Transmission Line: Andrew LDF5-50A  
(234 feet) 7/8 inch foam dielectric  
81.3% Efficiency

Antenna combiner : Insertion loss 0.300 dB  
93.325% Efficiency

Required Transmitter Power Output  
To Reach Effective Radiated Power: 1.93 kilowatts

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Facilities Authorized: Channel 300C - 107.9 MHZ

Effective Radiated Power: 2.5 kilowatts (H/V)

Geographic Coordinates: North Latitude 36° 08' 55"  
West Longitude 115° 09' 15"

Antenna Center of Radiation: Above Ground 346.0 meters  
Above MSL 966.0 meters

Antenna Structure Registration #: N/A