

APPLICATION FOR STATION LICENSE
GGB LAS VEGAS LLC
KOAS AUXILIARY FM ANTENNA
KOAS RADIO STATION
CH 289C - 105.7 MHZ - 2.50 KW (DA)
DOLAN SPRINGS, ARIZONA
June 2011

EXHIBIT A

KOAS 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 1.636

Transmission Line: Loss 0.888dB
81.5% Efficiency

Antenna combiner : Insertion loss 0.300 dB
93.325% Efficiency

Required Transmitter Power Output
To Reach Effective Radiated Power: 2.009 kilowatts

Facilities Authorized: Channel 289C - 105.7 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