

APPLICATION FOR STATION LICENSE
GGB LAS VEGAS LLC
KOAS RADIO STATION
CH 289C - 105.7 MHZ - 100.0 KW (H)
DOLAN SPRINGS, ARIZONA
November 2011

EXHIBIT A

KOAS Transmission System Calculations

Effective Radiated Power:	
Horizontal	100.0 kilowatts
Antenna:	Shively Labs, Model 6600-10R-SS-BB
	10 bay half wavelength spaced
Horizontal gain	6.28
Transmission Line:	Andrew Corporation HJ9-50
(154 feet)	5 inch air dielectric
	97.2% Efficiency
Combiner:	Shively Labs Tee-Combiner
	Insertion loss: 0.250 dB
	94.406% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	17.35 kilowatts

Facilities Authorized:	Channel 289C - 105.7 MHZ
Effective Radiated Power:	100.00 kilowatts (H)
Geographic Coordinates:	North Latitude 35° 50' 12"
	West Longitude 114° 19' 14"
Antenna Center of Radiation:	Above Ground 42.0 meters
	Above MSL 1,536.0 meters
	HAAT 543.0 meters
Antenna Structure Registration Number:	N/A