

APPLICATION FOR STATION LICENSE
KJUL LICENSE, LLC
KSTJ (FM) RADIO STATION
CH 274C - 102.7 MHZ - 1.50 KW
BOULDER CITY, NEVADA
April 2005

EXHIBIT A

KSTJ Auxiliary Transmission System Calculations

Effective Radiated Power:

Horizontal	1.5 kilowatts
Vertical	1.5 kilowatts

Antennas:

Shively Labs, 6813-3
3 bay full wavelength
1.55

Horizontal gain

Transmission Line:
(154 feet)

Andrew HJ7-50A
1 5/8 inch air dielectric
92.8% efficiency

Required Transmitter Power Output
To Reach Effective Radiated Power:

1.043 kilowatts

Facilities authorized:

Channel 274C - 102.7 MHz

Effective Radiated Power:

1.5 kilowatts (H/V)

Geographic Coordinates:

North Latitude	35° 56' 46"
West Longitude	115° 02' 34"

Antenna Center of Radiation:

Above Ground	27.0 meters
Above MSL	1344.0 meters
HAAT	553.0 meters

FCC Tower Registration Number:

None Required