

**Stop Buzzer:** Rick Scoggins 214-843-6025, **Alternate** Craig Wilson 972-877-3245

**Flight Elevation:** 14 km

**Reason For License:** Testing newly developed airborne platform

**Brief Description of the datalink test.**

The SATCOM data link will provide the necessary wideband satellite communication needed for the RTDE development and testing of the airborne and ground station communication network system.

**L3 GCS is the Satellite provider**

**Spacecraft:** SES-2

**Orbital location:** 273 ° E longitude

**Orbital Separation:** 3 degrees **LINK BUDGET** Clear sky Clear sky

**Transceiver ground-station antenna(s):**

**McKinney:**

Ant Gain: 47.4 dBi: MSL: 192m, AGL: 309

**Burn Flat:**

Ant Gain: 48.4 dBi: MSL 578 m, AGL 236m

**Greenville:**

Ant Gain: 32.6 dB: MSL 165, AGL 61m

Please provide the following information with respect to the satellite(s): 1. Receive antenna gain,

LOS Air 9.5"	Gain	22.5 dBic
LOS Ground 48"	Gain	41dBi

Please provide the following information with respect the transceiver ground-station antenna(s): 1. Beamwidth of transmit antenna at the half-power points, at each location if different.

3 dB beamwidth