

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