

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

Flight Elevation: 14km

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

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

Transceiver ground-station antenna(s):

McKinney: (Ground Station) Ant Gain: 47.4 dBi: MSL: 192m, AGL: 12 ft. - No Ant Tracking
Full beam width: 0.49 deg. Half beam width: 0.24.
No Ant Tracking

No Airborne platform

Burn flat: (Ground Station) Ant Gain: 48.4 dBi: MSL 578 m, AGL 10 ft - No Ant Tracking
Full beam width: 0.49 deg. Half beam width: 0.24.
No Ant Tracking

L-3 Airborne directional antenna- 0.4 Diameter: Gain: 32.7 dBi
Full beam width: 1.48 deg. Half beam width: 0.74 deg.

Greenville: (Ground Station) Ant Gain: 32.6 dB: MSL 165, AGL 10 ft.
Full beam width: 0.49 deg. Half beam width: 0.24.
No Ant tracking

L-3 Airborne directional antenna-0.4 Diameter: Gain: 32.7 dBi
Full beam width: 1.48 deg. Half beam width: 0.74 deg.