

0820-EX-CN-2018

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

Satellite(s): Receive antenna gain,

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

Transceiver ground-station antenna(s):

Will Roger Airport OK: (Ground Station): Ant Gain: 48.4 dBi: MSL 395 m, AGL 3.7mt - No Ant Tracking

Full beam width: 0.49 deg. **Half beam width:** 0.24.9

