

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):

Will Rogers Airport:

Ant Gain: 48.4 dBi: AGL: 393.192m

Airbourne Antenna: 17.5-SATCOM directional antenna

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