

From: Clarence Banks

To: Behnam Ghaffari

Date: October 22, 2018

Subject: 0778-EX-CN-2018

Message:

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