

From: DANIEL MCNEIL

To: Leann Nguyen

Date: March 10, 2020

Subject: Request for Info - File # 0162-EX-ST-2020

Message:

1. What is the size of the proposed antenna(s)?
Ku-band Waveguide emitter; have requested additional specs from supplier
2. Please submit a radiation hazard of the proposed antenna(s)
I've cc'd Vince & he did RADHAZ for the SG program and will be updating it for the Test Set (by tomorrow); EIRP_SFC_max typical= [Aircraft transmitter EIRP -typical path loss at 5 M distance from SFC] + [SFC typical loss] (78dBm- 70dB -18dB) : -10dBm
3. through 6. This Operational Level Test Equipment Satellite Simulator is for periodic short duration (1-2hour) check-out events to verify the aircraft system installation is functional. The operation is close range (10 meters from the aircraft) and direct line of sight 0deg elevation on the plane of the aircraft antenna (3.5-4 meters above ground). OLT does not transmit until a signal is received from the AC. OLT beamwidth is: Typical : 3-7dBi 130deg;E 70deg;H@[10950MHz-12700]MHz. No transmissions will be made towards open space. Sequence of events:
 - a. place OLTE 10m directly starboard of the Aircraft
 - b. assemble simulator to mast and stand
 - c. connect to power source and turn on
 - d. extend mast deploy to height appropriate to with AC
 - e. Initiate RF Test from AC
 - i. AC transmits test brief signal to OLT for down conversion and return transmission to AC
 - ii. AC receives message and passes test
 - f. Lower mast, power down system, disassemble