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# **Exhibits & Supporting Information for STA**

The primary purpose was to Research, development and testing of an LTE-based air-to-ground system (DA2G) that will provide broadband connectivity and internet service to aircraft during flights.

**Fixed station: (FX)** 

Transmitter manufacture - Airspan Networks Inc. Transmitter Model Number – HAR10-CN-U53-B0

The fixed stations (FX) mentioned in this document will be mounted as mentioned below:

1) Boca Raton, Florida – on top of the building as shown in Figure 1.

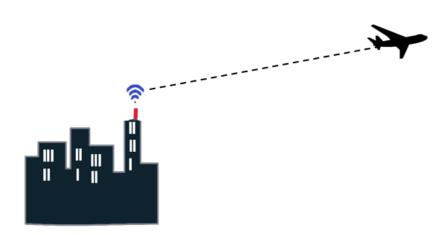


Figure 1.

### **Fixed Stations Antennas:**

An Alpha wireless AW3003 antenna will be used as commercial off the shelf (COTS) for the air to ground solution.

**Antenna parameters:** Uptilt -6 Degrees, Polarization  $-+/-45^{\circ}$  Slant, Gain -17dBi, Azimuth beam width  $-90^{\circ}$ , Elevation Beam width  $-7^{\circ}$ .

# **Mobile Station: (MO)**

Transmitter manufacture - Airspan Networks Inc. Transmitter Model Number – IR468D-BFO-FD1 The mobile stations mentioned in this document will be mounted as mentioned below:

- a) Equipment is installed inside the aircraft
- b) Aircraft antenna is mounted under the bottom of the aircraft.

#### **Mobile Stations Antennas:**

An Alpha wireless AW3587 antenna will be used as commercial off the shelf (COTS) for the air to ground solution. In addition, it mounted inside the aircraft antenna enclosure.

**Antenna parameters:** Polarization  $- +/- 45^{\circ}$  dual Slant, Gain - 9 dBi, Azimuth HPBW  $- 60^{\circ}$ , Elevation HPBW  $- 35^{\circ}$ .

### **Fixed Stations Locations:**

## Boca Raton, Florida – 3 units

- Latitude North 26 23 41
- Longitude West 80 6 1
- Antenna height less than 1 meter from to top building to tip of antenna
- Center Frequency 2490 MHz
- Bandwidth 10 MHz
- Emission designator 10M0G7W
- EIRP 43 (dBm)
- Orientation 112, 232, 352 radial

## **Mobile Stations Locations:**

A mobile station or aircraft is operated 20 km radius of fixed station location as described above.

#### Aircraft/ Mobile

- Center Frequency 2490 MHz
- Bandwidth 10 MHz
- Emission designator 10M0G7W
- EIRP 30 (dBm)