Technical Description

The Boeing Company

Submitted: 09/01/2020
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JUSTIFICATION:
SATSIM test and setup
The Boeing Company is requesting a Special Temporary Authorization (STA) to support satellite antenna development. Boeing will conduct testing using a Ka Band Satellite simulator. The testing will be conducted in Silver Springs, NV, and the Commercial EM Test Facility (Element) in Hillsboro, OR.

Start Date: 9/17/2020
Stop Date: 3/17/2021

Manufacturer:	**Atlantic Microwave Ltd**
Model:	**CST-MSS-130021-S5S5 (Ka-band)**
Frequencies:	**18.7 – 21.2 GHz (Downlink)**
Emissions:	**10M0G7D**
ERP:	**0.000005 W (5 μW)**
Station Class:	**FX**

Data terminal low power mode:

Manufacturer:	**GetSAT**
Model:	**Ka MicroSAT Antenna System**
Frequencies:	**29-31 GHz (Uplink)**
Emissions:	**10M0G7D**
ERP:	**0.04 W**
Station Class:	**FX**

Manufacturer:	**AvL Technologies**
Model:	**2.4 meter Ka Antenna System (Ground VSAT)**
Frequencies:	**29-31 GHz (Uplink)**
Emissions:	**10M0G7D**
ERP:	**2.35 W**
Station Class:	**FX**

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Data terminal high power mode only for indoor test chamber at Silver Springs, NV

Manufacturer: **GetSAT**
Model: **Ka MicroSAT Antenna System**
Frequencies: **29-31 GHz (Uplink)**
Emissions: **10M0G7D**
ERP: **39,811 W**
Station Class: **FX**

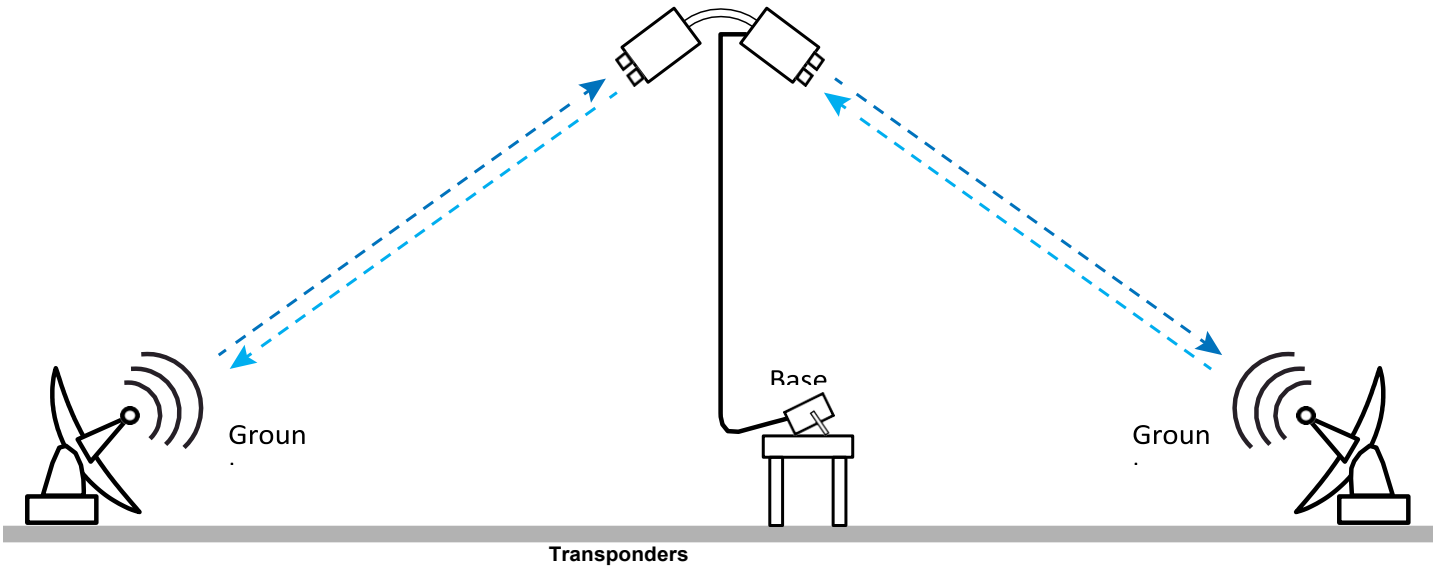
Manufacturer: **AvL Technologies**
Model: **2.4 meter Ka Antenna System (Ground VSAT)**
Frequencies: **29-31 GHz (Uplink)**
Emissions: **10M0G7D**
ERP: **2,350,000 W (2.35 MW)**
Station Class: **FX**

LOCATIONS:

Location:	Silver Springs, NV
Lat/Lon:	within 5 km, centered around NL 39-17-50; WL 119-22-31
Station Class	FX

Location:	Hillsboro, OR
Lat/Lon:	within 5 km, centered around NL 45-31-45; WL 122-55-53
Station Class	FX

STOP BUZZER POINT OF CONTACT:
Stop Buzzer for Operation: **Ben Schreffler at 509-493-4691,**



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