

Technical Description
SATCOM Antenna System Demonstration

The Boeing Company

Submitted: 8/16/2018
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JUSTIFICATION:

SATCOM System Demonstration

The Boeing Company is requesting a Special Temporary Authorization (STA) to support satellite antenna development.

OBJECTIVE & TEST DESCRIPTION

This requirement supports the development of the Datapath CCT-120 and the GetSat MicroSat antenna systems over the air test communicating with Inmarsat-5 F2.

The test will be conducted in in the vicinity of Florence, AZ with flights in the R2310 range. Boeing is requesting to transmit Earth-to-Space on 30-31 GHz, and Space-to-Earth on 20.2-21.2 GHz.

Start Date: 09/02/2018
Stop Date: 03/02/2019

Manufacturer:	GetSAT
Model:	MicroSAT Antenna System
Frequencies:	30-31 GHz
Emissions:	16M8M1D
ERP:	31623W
Station Class:	FX, MO

Manufacturer:	Datapath
Model:	CCT-120 Antenna System
Frequencies:	30-31 GHz
Emissions:	8M4M1D
ERP:	331131 W
Station Class:	FX, MO

Point-of-Communication.	Inmarsat 5F2
I5-F2 -Downlink	
Frequencies:	20.2-21.2 GHz
Emissions:	16M8M1D/8M4M1D
ERP:	199526W/27542W

LOCATIONS

Location:	Florence, AZ
Lat/Lon:	33 4 26 N 111 22 8 W
Radius:	80 Km
Station Class	FX, MO
Altitude	12,500 ft AGL

STOP BUZZER POINT OF CONTACT:

Stop Buzzer for Operation: Boeing 24 hour NOC hotline: (855) 556-1001 email: bcssnoc@boeing.com

STOP BUZZER POINT OF CONTACT:

Stop Buzzer for Operation: Jacob Kuo cell (310) 227-6371 or Boeing 24 hour NOC hotline: (855) 556-1001 email: bcssnoc@boeing.com

LOCATIONS

Ground Test

Location:	Boardman WA
Lat/Lon:	45 44 54 N 119 47 1W
Radius:	2 Km
Station Class	FX, MO