

**Operational Description**  
**SATCOM Antenna System Demonstration**

**The Boeing Company**

**Submitted:** 8/23/2018  
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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 ASC 3.5 M antenna systems with Inmarsat-5 F2.

The test will be conducted at the Inmarsat Lino Lakes MN teleport facility. Boeing is requesting to transmit Earth-to-Space on 30-31 GHz, and Space-to-Earth on 20.2-21.2 GHz.

Operation Start Date: 09/14/2018

Operation End Date: 03/14/2018

Manufacturer:	ASC
Model:	3.5M
Frequencies:	30-31 GHz
Emissions:	70M1M1D
ERP:	204174W
Emissions:	50M0M1D
ERP:	794328W
Emissions:	30M0M1D
ERP:	794328W
Emissions:	20M0M1D
ERP:	794328W
Emissions:	10M0M1D
ERP:	794328W
Emissions:	5M00M1D
ERP:	794328W
Emissions:	1M00M1D
ERP:	316228W

I5-F2 -Downlink

Frequencies:	20.2-21.2 GHz
Emissions:	70M1M1D
ERP:	549541W
Emissions:	50M0M1D
ERP:	549541W
Emissions:	30M0M1D
ERP:	549541W
Emissions:	20M0M1D
ERP:	446684W
Emissions:	10M0M1D
ERP:	223872W
Emissions:	5M00M1D
ERP:	112202W
Emissions:	1M00M1D
ERP:	22387W

**LOCATIONS**

Location:	Lino Lakes, MN
Lat/Lon:	45-08-03N 93-05-45W
Station Class	FX

POINT OF COMMUNICATION: INMARSAT-5 F2 (55W)

**STOP BUZZER POINT OF CONTACT:**

Stop Buzzer for Operation: Robert Ruggieri cell +1 (301) 266-0924 or Boeing 24-hour NOC hotline: (855) 556-1001 and email: [bcssnoc@boeing.com](mailto:bcssnoc@boeing.com)