

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

**The Boeing Company**

**Submitted:** 8/31/2019  
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This activity has been coordinated with NGUYEN, JIMMY GS-14 USAF AFSPC  
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The Boeing Company is requesting a FCC Experimental License in lieu of FCC Special  
Temporary Authorization (STA) to continue supporting a VIP government contract.

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.

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

**STOP BUZZER POINT OF CONTACT:**

Stop Buzzer for Operation: Robert Ruggieri cell +1 (301) 266-0924 or Boeing 24-hour NOC  
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