

Technical Description
SATCOM Antenna System Demonstration

The Boeing Company

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This activity has been coordinated with NGUYEN, JIMMY GS-14 USAF AFSPC AFSMO/SMI. jimmy.nguyen@us.af.mil
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This FCC experimental license request is to replace current FCC STA WR9XLB
FCC file number: 0007-EX-ST-2021

JUSTIFICATION:

SATCOM Antenna System

The Boeing Company is requesting an FCC Special Temporary Authorization (STA) to support an E4-B government contract under the following contract numbers:

E4-B Contract Number: FA8106-16-D-0002

OBJECTIVE & TEST DESCRIPTION

This requirement supports the development of the Datapath CCT-120 antenna system 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.

Manufacturer:	CCT-120
Model:	1.2 meter
Frequencies:	30-31 GHz
ERP:	794,328W
Emissions:	6M30M1D 7M60M1D 12M3M1D 20M2M1D 24M6M1D 4M80M1D 10M8M1D 20M0M1D 20M7M1D 24M2M1D

I5-F2 –Downlink

Frequencies: 20.2-21.2 GHz

ERP: 602,560W

Emissions: 24M5M1D
38M4M1D
44M4M1D
60M0M1D
99M9M1D

LOCATIONS

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

POINT OF COMMUNICATION: INMARSAT-5 F2

Stop Buzzer for Operation:

Boeing 24 hour NOC hotline: **(855) 556-1001**

email: bcssnoc@boeing.com

or Rick Jones cell **(253) 350-2801**