

**Technical Description**  
**SATCOM Antenna System Demonstration**

**The Boeing Company**

**Submitted:** 11/19/2019

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This activity has been coordinated with NGUYEN, JIMMY GS-14 USAF AFSPC  
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JUSTIFICATION:

**SATCOM System Demonstration**

**Contract: FA8106-16-D-0002 (21Sep19 – 31Mar20)**

The Boeing Company request modification of FCC license WK2XMA to update the configuration to support high visibility testing and demonstrations at the request of the AFLCMC System Program Office in support of emergent E4-B SATCOM requirements. The Boeing Company would like to start testing on this configuration on 1 December 2019. Coordination with AFSMO is attached to this license application.

Manufacturer:	Thinkom Ka2517
Model:	Thinkom Ka2517
Frequencies:	30-31 GHz
Emissions:	4M80M1D, 6M30M1D, 7M60M1D, 10M80M1D, 12M30M1D, 20M20M1D
ERP:	27542W

I5-F2;F3 -Downlink

Frequencies:	20.2-21.2 GHz
Emissions:	24M5M1D, 44M40M1D, 60M00M1D
ERP:	602560W

**LOCATIONS**

Location:	CONUS US & Possessions
Lat/Lon:	0-0-00N 0-0-00W
Station Class	MO
Flight level:	40,000 ft

Location:	COMSIL, Salt Lake City UT
Lat/Lon:	40 46 31 N 111 53 5 W
Station Class:	FX

POINT OF COMMUNICATION: INMARSAT-5 F2 (55W) and INMARSAT F-3 (180E)

STOP BUZZER POINT OF CONTACT:

Stop Buzzer for Operation: Boeing 24 hour NOC hotline: (855) 556-1001 email:

[bcssnoc@boeing.com](mailto:bcssnoc@boeing.com) or Samir Patel cell (310) 227-7178