

Operational Description V22 Antenna System Demonstration

The Boeing Company

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JUSTIFICATION:

V-22 antenna system demonstration

A Special Temporary Authorization (STA) is being requested to support Boeing demonstration in support of V22 Ka satellite antenna development.

OBJECTIVE & TEST DESCRIPTION

This requirement supports the development of the Datapath CCT-200, Viasat KuKArray, and the Boeing SFF antenna systems over the air test communicating with Inmarsat-5 F2 and will be conducted in Arlington TX. Boeing is requesting to transmit Earth-to-Space on 30-31 GHz, and 20.2-21.2 GHz Space-to-Earth allocation is also requested to allow the downlink signal from Inmarsat Satellite to the terminal at the Arlington TX location.

Boeing plans to use the Datapath CCT-200 Mil-Ka as the uplink test carrier from Arlington TX, transmitting to the Thinkkcom, and the Boeing SFF. These are separate test and won't occur simultaneously.

Manufacturer:	Viasat.
Model:	KuKArray Antenna system
Manufacturer:	Boeing.
Model:	SFF
Manufacturer:	Datapath
Model:	CTT-200

Frequencies:	30-31 GHz
Emissions:	7M40M1D, 13M80M1D, 9M83M1D, 22M10M1D
ERP:	39811 W
Station Class:	FX

I5-F2 -Downlink

Frequencies:	20.2-21.2 GHz
Emissions:	7M40M1D, 13M80M1D, 9M83M1D, 22M10M1D
ERP:	100000 W

STOP BUZZER POINT OF CONTACT:

Stop Buzzer POC, Samir Patel (310) 227-7178 or Boeing 24 hour NOC hotline: (855) 556-1001

LOCATIONS

Location:	Arlington, TX
Lat/Lon:	32.67N, 97.09W
Radius:	5 meter