Technical Description (Amended1)

The Boeing Company

Submitted 3/11/2021
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Global Spectrum Management (GSM) MC: 1K-105
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JUSTIFICATION:

The Boeing Company is requesting a Special Temporary Authorization (STA) to support satellite antenna development. Boeing will conduct testing using Echostar – 9 satellite, GetSAT MicroSAT Ka Antenna system and the AvL Technologies 2.4 meter Ka Antenna System. Testing will be conducted fixed ground at in Bingen, WA, and Hood River. Testing will be conducted fixed and mobile at Boardman, OR, and Pendleton, OR.

OBJECTIVE & TEST DESCRPTION:

The test requires two downlink frequencies that will be coordinated with Echostar (Echostar-9) call sign, S2179 and two uplink frequencies for the terminals under test.

START DATE: 3/19/2021
STOP DATE: 9/192021

TERMINALS:

Manufacture:	AvL Technolgies
Model:	2.4mKa Antenna System
Antenna Specs:	AVL max power input: 12.6W, Antenna gain 55.2 dBi
ERP:	31419W
Manufacture:	GetSAT
Model:	Ka MicroSAT Antenna System
Antenna Specs:	max power input: 19.1W Antenna gain 34.31 dBi antenna size 11.8in x 5.7in
ERP:	2.57MW
Frequencies:	29.805 GHz;
Emission:	600K00G7D, 10M00G7D, 20M00G7D

LOCATIONS:

Location:	118 East Columbia River Way, Bingen, WA 98605
Lat/Lon	45-42-23N; 121-27-02W, Radius: 5Km
Station Class:	FX

Location:	902 Wasco St., Hood River, OR 97818
Lat/Lon	45-42-41N; 121-31-11W, Radius: 5Km
Station Class:	FX

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Location: Tower Road, Boardman, OR 97818
Lat/Lon 45-44-54N:;119-47-38W
Station Class: MO/FX; 15000ft AGL, Radius: 50Km

Location: Pendleton, OR 97801
Lat/Lon 45-41-21N; 118-50-32W
Station Class: MO/FX; 15000ft AGL, Radius: 50Km

Point of Communication: Echostar-9

STOP BUZZER POINT OF CONTACT:
Insitu OAC: 509-637-4691