

Technical Description (Amended)

The Boeing Company

Submitted 9/8/2021
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JUSTIFICATION:

The Boeing Company is requesting an experimental license to support satellite antenna development. Boeing will conduct testing using US Permitted Space Stations and the AvL Technologies 2.4 meter Ka Antenna System. Testing will be conducted fixed ground in Bingen, WA, Hood River OR, Boardman, OR, and Pendleton, OR.

OBJECTIVE & TEST DESCRIPTION:

This requirement supports the testing of AvL Technologies 2.4 meter Ka Antenna System over the air with US Permitted Space Stations. Boeing is requesting to transmit Earth-to-Space on 29.5-29.7 GHz; 29.8-30 GHz.

TERMINALS:

Manufacture:	AvL Technologies
Model:	2.4mKa Antenna System
Antenna Specs:	AVL max power input: 12.6W, Antenna gain 55.2 dBi
ERP:	2.57W
Frequencies:	29.5-29.7 GHz; 29.8-30 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
Radius	5Km

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

Location:	Tower Road, Boardman, OR 97818
Lat/Lon	45-44-54N;;119-47-38W
Station Class:	FX
Radius	5Km

Technical Description (Amended)

Location: Pendleton, OR 97801
Lat/Lon 45-41-21N; 118-50-32W
Station Class: FX
Radius 5Km

Point of Communication: EchoStar 9; S2179

STOP BUZZER POINT OF CONTACT:

Insitu OAC: 509-637-4691