

# Technical Description

3/12/2021

**Submitted by Allen S. Lindsay, Sr on behalf of Insitu**

**The Boeing Company**

Frequency Manager

Global Spectrum Management (GSM) MC: 1K-105

P.O. Box 3707, Seattle WA 98124-2207

425-237-9168

## **JUSTIFICATION:**

A Special Temporary Authorization (STA) is being requested to support satellite antenna development using Echostar – 9 satellite with the AvL Technologies 2.4 meter Ka Antenna System. Testing will be conducted fixed ground at Bingen, WA, Hood River, Boardman, OR, and Pendleton, OR.

## **OBJECTIVE & TEST DESCRIPTION:**

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:** 3/29/2021

**STOP DATE:** 9/29/2021

## **TERMINALS:**

<b>Manufacture:</b>	AvL Technologies
<b>Model:</b>	2.4mKa Antenna System
<b>Antenna Specs:</b>	AVL max power input: 12.6W, Antenna gain 55.2 dBi
<b>ERP:</b>	2.57W
<b>Frequencies:</b>	29.805 GHz;
<b>Emission:</b>	600K00G7D, 10M00G7D, 20M00G7D

## **LOCATIONS:**

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

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

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

## Technical Description

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

**Point of Communication:** Echostar-9

**STOP BUZZER POINT OF CONTACT:**

Insitu OAC: 509-637-4691