



ATLAS Space Operation, LLC
10850 E. Traverse Highway, Suite 3355
Traverse City, Michigan 49684-1363

April 6, 2022

TO: Ms. Marlene H. Dortch
Secretary, Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554
Re: Request for Special Temporary Authority

Dear Ms. Dortch,

Pursuant to Section 25.120 of the Commission's Rules, ATLAS Space Operations, Inc (ATLAS) requests Special Temporary Authority (STA) for thirty (30) days, commencing no sooner than May 2, 2022 for the operation of a satellite earth station in Utqiagvik, Alaska to communicate with the Odyssey Satellite (**Certification of Spectrum Support Doc. 44729/1**). The purpose of this STA is to perform a 2 week demonstration with no more than 4 contacts per day to prove the ATLAS earth station can support future missions operated by the US Space Force (USSF). The Alaska earth station is located at 71-16-30.4 N, 156-48-22.0 W (Call Sign E202173).

Orbit Parameters

Odyssey

NORAD ID: 48844

Inclination: 97.4 degrees

Apogee: 425 km

Perigee: 400 km

The ATLAS satellite earth station in Alaska is required to provide TT&C support to the Odyssey satellite given its optimal location with other earth stations around the globe. The additional points of communication are being coordinated and reports will be submitted to this filing once completed. ATLAS has also initiated coordination with the local Society of Broadcast Engineers. A brief summary of parameters are below.

Frequencies Sought by This STA

(1) TT&C uplink

Center Frequency:

2097.7 MHz

Emission Designator: 10K0G1D, 20K0G1D, 2K00G1D, 40K0G1D

Polarity: RHCP

Max EIRP Per Carrier (dBW): 55.97, 58.98, 52.0, 62

Max EIRP Density Per Carrier (dBW/4 kHz): 52

(2) TT&C Downlink

Center Frequency:



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2275.9 MHz

Emission Designator: 3M60G1D, 1M50G1D, 250KG1D

Polarity: RHCP

Antenna Specifications:

Make: Orbit CS

Model: Gaia 100

Size: 3.7 meter

Gain: 35 dBi

Operation of the Alaska earth station beginning no sooner than May 2, 2022 will allow the USSF to accomplish a test to analyze the future use of the earth station with future US Government owned LEO satellites. Granting the STA will greatly enhance the US government's ability to innovate.

24 hour contact information for the Alaska earth station is as follows: +1 832 855 0844

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USAF POC:

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Respectfully Submitted,

Hanna Pritchard
Licensing and Regulatory Officer
ATLAS Space Operations