June 1, 2022

Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
45 L Street NE
Washington, DC 20554

Re: Request for Extension of 180-day Grant of Special Temporary Authority
7.3m S-band Antenna, Haleiwa, Hawaii

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests an additional 180 days of Special Temporary Authority ("STA")[1] previously granted to Intelsat[2] to use a 7.3m S-band antenna located at its Haleiwa, Hawaii teleport to provide telemetry, tracking, and command ("TT&C") services to a U.S. Air Force Research Laboratory ("AFRL") ASCENT CubeSat during its launch and early orbit phase and mission. ASCENT was launched on December 7, 2021, and the mission is expected to last approximately one year.

The ASCENT CubeSat is a Department of Defense Space Test Program satellite demonstrating a new ASCENT propellant. The satellite is currently transiting to, and is expected to reach by December, 300 km above geostationary orbit.

The TT&C operations are being performed in the following frequencies: 2037.5 MHz (RHCP) in the uplink and 2233.0 MHz (RHCP) in the downlink.

The 24x7 contact information for the requested operations is as follows:

Ph.: (703) 559-7701 – East Coast Operations Center (primary)
(310) 525-5591 – West Coast Operations Center (back-up)

Request to speak with Kevin Bell or Glen Jones.

In further support of this request, Intelsat incorporates by reference Exhibits A and B of its original request,[3] which contains technical information that demonstrates that the operation of the earth station will be compatible with its electromagnetic environment and will not cause harmful interference into any lawfully operating commercial terrestrial facility, and a U.S. Air Force/AFRL

[1] Intelsat has filed its STA request, an FCC Form 159, a $210.00 filing fee, and this supporting letter electronically via the International Bureau's Filing System.

[2] *See Satellite Communications Services Information*; Actions Taken, Report No. SES-02423, File No. SES-STA-20210615-00959 (Dec. 15, 2022) (Public Notice).

[3] *Id.*

document supporting the requested ASCENT CubeSat operations, respectively. Additionally, Intelsat attaches, as Exhibit C, antenna information.

Finally, Intelsat clarifies that during the ASCENT CubeSat mission, the U.S. Air Force is controlling the spacecraft. Intelsat remains in control of the baseband unit, RF equipment, and antenna.

Grant of this STA extension request will allow Intelsat to assist in ensuring the safe flight of the ASCENT CubeSat satellite and thereby promotes the public interest.

Please direct any questions regarding this STA extension request to the undersigned at (703) 559-6949.

Respectfully submitted,

/s/ Cynthia J. Grady
Cynthia J. Grady
Assistant General Counsel
Intelsat US LLC

cc: Kerry Murray

EXHIBIT C

Antenna

Antenna size	7.3m
Transmit Frequencies	2037.5 MHz
Receive Frequencies	2233.0 MHz
Emission Designators	4K00G1D & 40K0G1D
Polarization	Circular
Bandwidth	4.0 kHz & 40.0 kHz
Transmit Gain	40.9 dBi
EIRP Value	65 dBW
Input Power	500 W
Location (NAD83)	158° 2’ 7.1” W
	21° 40’ 14.1” N