January 10, 2023

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

Re: Request for Special Temporary Authority to Operate Ku-band Flat Panel Antenna

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests 30 days of Special Temporary Authority ("STA"),[1] commencing February 3, 2023, to operate a Starwin ESA50 0.5m flat-panel Ku-band antenna in motion while vehicle mounted in the continental United States.[2] Intelsat expects the testing to last approximately three months.

The proposed operations will be in the following frequency bands: 11700-12750 MHz (downlink) and 14000-14500 MHz (uplink). The antenna will communicate with Galaxy 11 (S2253), Galaxy 18 (S2733), SKY-B1 (S2922), and Intelsat 37e (S2972). In support of this request, Intelsat herein attaches additional operational information as Exhibit A and will supplement this request with a Radiation Hazard Report.

The 24x7 contact information for the proposed operations is: Tony Williams at (404) 381-2744. In the extremely unlikely event that harmful interference should occur due to transmissions to or from its antenna, Intelsat will take all reasonable steps to eliminate the interference.

The proposed operations will enable Intelsat to test new equipment. Accordingly, grant of this STA is in the public interest.

Respectfully submitted,

/s/ W. Ray Rutngamlug
W. Ray Rutngamlug
Associate General Counsel
Intelsat US LLC

cc: Franco Hinojosa

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

[2] Intelsat will not operate within 150 km of the Tracking and Data Relay Satellite System sites in Blossom Point, Maryland and White Sands, New Mexico.

EXHIBIT A

Intelsat License LLC
Request for Special Temporary Authority to Operate Ku-band Flat Panel Antenna

Antenna Description	Starwin ESA50
Antenna Size (m)	0.5
Transmit Frequencies (MHz)	14000-14500
Receive Frequencies (MHz)	11700-12750
Emission Designator(s)	1M29G7W, 996KG7W, and 4M32G7W
Polarization	Linear, Vertical
Bandwidth (MHz)	1.296, 0.996, and 4.320
Transmit Gain	32.0 dBi @ 13.00 GHz 32.8 dBi @ 14.25 GHz
Maximum EIRP per Carrier (dBW)	43
Maximum EIRP Density per Carrier (dBW/4 kHz)	-17.8, -16.7, and -23.1
Site Locations and Latitude/Longitude (NAD83)	n/a; continental U.S.
Satellite Point(s) of Communication, Call Sign, and Orbital Location	Galaxy 11 (S2253) at 93.1° W.L.
	Galaxy 18 (S2733) at 123° W.L.
	SKY-B1 (S2922) at 43.15° W.L.
	Intelsat 37e (S2972) at 18.0° W.L.