



February 3, 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 20, 2023, to operate a Ball 6x4 0.41m flat-panel Ku-band antenna for drive tests in McLean, Virginia; Mt. Prospect, Illinois; and from McLean, Virginia to Florida.² Intelsat expects the drive tests to occur over three months.

The proposed tests will be in the following frequency bands: 11700-12750 MHz (downlink) and 14000-14500 MHz (uplink).³ The antenna will communicate with Galaxy 11, Galaxy 18, SKY-B1, and Intelsat 37e. In support of this request, Intelsat herein attaches additional operational information and a Radiation Hazard Report as Exhibits A and C, respectively.

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/ Cynthia J. Grady
Cynthia J. Grady
Assistant 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 A map of the Virginia-Florida route is included in Exhibit B.

³ Intelsat will not operate in the 14000-14500 MHz band within 125km of the Federal TDRRS sites specified in 47 CFR 25.228(j)(1). Additionally, none of Intelsat's proposed operations will be within line-of-sight of active Federal sites as identified in footnote US113 of the U.S. Table of Frequency Allocations.

EXHIBIT A

Intelsat License LLC
Request for Special Temporary Authority

Antenna Description	Ball Aerospace 6x4 Subarray Gen II 3S
Antenna Size (m)	0.41
Transmit Frequencies (MHz)	14000-14500
Receive Frequencies (MHz)	11700-12200
Emission Designator	1M29G7W, 996KG7W, and 4M32G7W
Polarization	Linear
Bandwidth	1.296, 0.996, and 4.320
Transmit Gain	35 dBi @ 14.3 GHz (boresight) 28.3 dBi @ 14.3 GHz (25° elev angle)
Maximum EIRP per Carrier (dBW)	49.5 dBW (boresight) 43.3 dBW (25° elev angle)
Maximum EIRP Density per Carrier (dBW/4 kHz)	14.5
Site Locations and Latitude/Longitude (NAD83)	McLean, VA 38° 55' 9.74" N, 77° 13' 11.23" W Mt. Prospect, IL 42° 4' 42.8" N, 87° 54' 56.1" W VA-FL drive test (see Exhibit B)
Satellite Point(s) of Communication, Call Sign, and Orbital Location	Galaxy 11 (S2253) at 93.1° W.L.
	Galaxy 18 (S2733) at 123.0° W.L.
	SKY-B1 (S2922) at 43.15° W.L.
	Intelsat 37e (S2972) at 18.0° W.L.

EXHIBIT B

Intelsat License LLC
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