



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"),<sup>1</sup> commencing February 21, 2023, to operate a Ball 6x6 0.46m flat-panel Ku-band antenna for drive tests in McLean, Virginia; Mt. Prospect, Illinois; and from McLean, Virginia to Florida.<sup>2</sup> 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).<sup>3</sup> The antenna will communicate with Galaxy 11, Galaxy 18, SKY-B1, Intelsat 37e, and WorldVu Satellites Limited's NGSO FSS System. 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

<sup>1</sup> 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.

<sup>2</sup> A map of the Virginia-Florida route is included in Exhibit B.

<sup>3</sup> 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 6x6 Subarray Gen II 3S                                                                                                              |
| Antenna Size (m)                                                     | 0.46                                                                                                                                               |
| Transmit Frequencies (MHz)                                           | 14000-14500                                                                                                                                        |
| Receive Frequencies (MHz)                                            | 11700-12200                                                                                                                                        |
| Emission Designator                                                  | 1M29G7W, 996KG7W, and 4M32G7W                                                                                                                      |
| Polarization                                                         | Linear                                                                                                                                             |
| Bandwidth (MHz)                                                      | 1.296, 0.996, and 4.320                                                                                                                            |
| Transmit Gain                                                        | 35 dBi @ 14.3 GHz (boresight)<br>28.3 dBi @ 14.3 GHz (25° elev angle)                                                                              |
| Maximum EIRP per Carrier (dBW)                                       | 49.5 dBW (boresight)<br>43.3 dBW (25° elev angle)                                                                                                  |
| Maximum EIRP Density per Carrier (dBW/4 kHz)                         | 14.5                                                                                                                                               |
| Site Locations and Latitude/Longitude (NAD83)                        | McLean, VA<br>38° 55' 9.74" N, 77° 13' 11.23" W<br><br>Mt. Prospect, IL<br>42° 4' 42.8" N, 87° 54' 56.1" W<br><br>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° W.L.                                                                                                                     |
|                                                                      | SKY-B1 (S2922) at 43.15° W.L.                                                                                                                      |
|                                                                      | Intelsat 37e (S2972) at 18.0° W.L.                                                                                                                 |
|                                                                      | WorldVu Satellites Limited NGSO FSS System (Call Sign S2963)                                                                                       |

## EXHIBIT B

Intelsat License LLC  
Request for Special Temporary Authority

