



September 8, 2022

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

Re: Request for 30 Days of Special Temporary Authority to Operate Three 0.46 m
Ku-band Flat Panel Antennas

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests 30 days of Special Temporary Authority ("STA"),¹ commencing on or before October 3, 2022, to test three 0.46 m flat-panel Ku-band antennas in Broomfield, Colorado; Hagerstown, Maryland; and Rochester, New York. The testing will occur while the antennas are stationary and while in motion on a terrestrial vehicle. Intelsat expects the testing to last approximately three months.

During the proposed operations, the antennas will communicate with Galaxy 11 (S2253), Galaxy 17 (S2715), Galaxy 18 (S2733), and SKY-B1 (S2922) in the 11.7-12.2 GHz and 14.2-14.5 GHz frequency bands.²

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: Kerry Murray
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 In support of this request, additional antenna and satellite information and a Radiation Hazard Report are attached as Exhibits A and B, respectively.

EXHIBIT A

Intelsat's Request for STA to Test Three 0.46m Ku-band Antennas

Antenna Description	Ball Aerospace 6x6 Subarray Gen II 3S
Antenna Size (m)	0.46
Transmit Frequencies (MHz)	14200-14500
Receive Frequencies (MHz)	11700-12200
Emission Designator	1M23G7W
Polarization	Linear
Bandwidth	1.229 MHz
Transmit Gain	35 dBi @ 14.3 GHz (boresight) 28.3 dBi @ 14.3 GHz (25° elev angle)
Maximum EIRP per Carrier (dBW)	40
Maximum EIRP Density per Carrier (dBW/4 kHz)	14.5
Site Location 1: Latitude/Longitude (NAD83)	Hagerstown, MD 39° 35' 59.7" N, 77° 45' 30.8" W
Site Location 2: Latitude/Longitude (NAD83)	Rochester, NY 43° 5' 45.93" N, 77° 5' 45.9" W
Site Location 3: Latitude/Longitude (NAD83)	Broomfield, CO 39° 54' 42.78" N, 105° 5' 58.60" W
Satellite Points of Communication	Galaxy 11 (S2253) at 93.1° W.L. Galaxy 17 (S2715) at 91° W.L. Galaxy 18 (S2733) at 123° W.L. SKY-B1 (S2922) at 43.15° W.L.