



June 1, 2022

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

Re: Request for Extension of Special Temporary Authority to Operate Five New Ku-band Flat Panel Antennas

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests an additional 30 days of Special Temporary Authority ("STA"),¹ previously granted to Intelsat² to test five (5) 0.41-meter flat-panel Ku-band antennas. Four of the operations occur while the antennas are stationary, and are within a 10-mile radius each of Rochester, New York; Broomfield, Colorado; Intelsat's Hagerstown, Maryland teleport; and Intelsat's Ellenwood, Georgia teleport. The fifth test is within a 100-meter radius of a private parking lot in Alliance Ft. Worth, Texas, while the antenna is stationary and in motion. Intelsat now expects the testing to begin in late June and to last approximately six months.

During the operations, the antennas are communicating with Galaxy 17 (S2715) and Galaxy 18 (S2733) in the 11.7-12.2 GHz and 14.2-14.5 GHz frequency bands.³

The 24x7 contact information for the 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 operations will enable Intelsat to test new equipment. Accordingly, grant of this STA extension is in the public interest.

Respectfully submitted,

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

cc: Kerry Murray

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 See Satellite Communications Services Information; Actions Taken, Report No. SES-02464, File No. SES-STA-20220428-00430 (May 11, 2022) (Public Notice).

³ In support of this request, additional antenna and satellite information is provided in Exhibit A and a Radiation Hazard Report is attached as Exhibit B.

EXHIBIT A

Antenna

Antenna Description	Ball Aerospace 6x4 Subarray Gen II 3S
Antenna size	.41m
Transmit Frequencies	14.2-14.5 GHz
Receive Frequencies	11.7-12.2 GHz
Emission Designators	9 MHz carriers
Polarization	Linear
Bandwidth	9 MHz
Transmit Gain	33.2 dBi @ 14.3 GHz (boresight) 24.7 dBi @ 14.3 GHz (25° elev angle)
Maximum EIRP per Carrier	46.7 dBW for 9 MHz carrier
Maximum EIRP Density per Carrier	15 dBW/4 kHz
Location 1 (NAD83) Intelsat Teleport in Ellenwood, GA	84° 16' 18" W
	33° 39' 52" N
Location 2 (NAD83) Rochester, NY	77° 5' 45.9" W
	43° 5' 45.93" N
Location 3 (NAD83) Broomfield, CO	105° 5' 58.60" W
	39° 54' 42.78" N
Location 4 Intelsat Teleport in Hagerstown, MD	77° 45' 30.8" W
	39° 35' 59.7" N
Location 5 SBS-AFW, Alliance Ft. Worth, TX	97° 18' 56.49" W
	33° 0' 7.69" N

EXHIBIT A continued

Point(s) of Communication

Satellite	Galaxy 17
Call Sign	S2715
Satellite Type	Geostationary
Orbital Location	91°W

Satellite	Galaxy 18
Call Sign	S2733
Satellite Type	Geostationary
Orbital Location	123°W