



April 1, 2022

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

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

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests 30 days of Special Temporary Authority ("STA"),¹ commencing April 15, 2022, to test five (5) 0.41-meter flat-panel Ku-band antennas. Four of the proposed operations will take place within a 10-mile radius of Rochester, New York; Broomfield, Colorado; Intelsat's Hagerstown, Maryland teleport and Intelsat's Ellenwood, Georgia teleport and will occur while the antennas are stationary. The fifth test will take place within a 100-meter radius of a private parking lot in Alliance Ft. Worth, Texas while the antenna is stationary and in motion. Intelsat expects the testing to last approximately four months.

During the proposed operations, the antennas will communicate with Galaxy 17 (S2715) and Galaxy 18 (S2733) in the 11.7-12.2 GHz and 14.0-14.5 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
on behalf of Intelsat License 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 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	14.0-14.5 GHz
Receive Frequencies	11.7-12.2 GHz
Emission Designators	4 MHz and 9 MHz carriers
Polarization	Linear
Bandwidth	14 MHz and 9 MHz
Transmit Gain	33.2 dBi @ 14.3 GHz (boresight) 24.7 dBi @ 14.3 GHz (25° elev angle)
Maximum EIRP per Carrier	18 dBW/2 MHz and 20 dBW/2 MHz
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

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