



June 20, 2022

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

Re: Request for 180 Days of Special Temporary Authority to Operate Four New Ku-band Flat Panel Antennas

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests 180 days of Special Temporary Authority ("STA"),¹ commencing August 1, 2022, to test four 0.46m flat-panel Ku-band antennas in the continental United States. The testing will occur while the antennas are stationary and in motion. Intelsat expects the testing to last approximately four months.²

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

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

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 Intelsat is requesting 180 days of STA to accommodate potential delays.

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 9x9 Subarray Gen II 3S
Antenna size	.46m
Transmit Frequencies	14.2-14.5 GHz
Receive Frequencies	11.7-12.2 GHz
Emission Designators	1.229 MHz carriers
Polarization	Linear
Bandwidth	1.229 MHz
Transmit Gain	36.8 dBi @ 14.3 GHz (boresight) 32.6 dBi @ 14.3 GHz (25° elev angle)
Maximum EIRP per Carrier	40.7 dBW/1.229 MHz
Maximum EIRP Density per Carrier	15.8 dBW/4 kHz

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