



November 3, 2022

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 Antennas

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests 30 days of Special Temporary Authority ("STA"),¹ commencing no later than December 1, 2022, to test six 0.41 m flat-panel Ku-band antennas in the continental United States.² Intelsat will be testing the antennas while the antennas are mounted on a moving vehicle. Intelsat expects the testing to last approximately six months.

The proposed operations will be in: 11700-12200 MHz (downlink) and 14200-14500 MHz (uplink). The antennas will communicate with Galaxy 11, Galaxy 17, Galaxy 18, SKY-B1, Intelsat 37e, and the OneWeb constellation. In support of this request, Intelsat herein attaches additional operational information and a Radiation Hazard Report as Exhibits A and B, 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

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 will not operate within 150 km of the Tracking and Data Relay Satellite System sites in Blossom Point, Maryland and White Sands, New Mexico.

EXHIBIT A

Intelsat License LLC
Request for Special Temporary Authority to Operate Ku-band Flat Panel Antennas

Antenna Description	Ball Aerospace 6x4 Subarray Gen II 3S
Antenna Size (m)	0.41
Transmit Frequencies (GHz)	14.2-14.5
Receive Frequencies (GHz)	11.7-12.2
Emission Designator(s)	9 MHz carriers
Polarization	Linear
Bandwidth	9 MHz
Transmit Gain	33.2 dBi @ 14.3 GHz (boresight) 24.7 dBi @ 14.3 GHz (25° elevation angle)
Maximum EIRP per Carrier (dBW)	46.7
Maximum EIRP Density per Carrier (dBW/4 kHz)	15
Site Locations and Latitude/Longitude (NAD83)	n/a; continental U.S.
Satellite Point(s) of Communication, Call Sign, and Orbital Location	Galaxy 11 (S2253) at 93.1° W.L.
	Galaxy 17 (S2715) at 91.0° 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.
	OneWeb NGSO FSS System (S2963)