



April 7, 2023

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

Re: Request for Special Temporary Authority to Test Xphased Ku-band Antenna

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests 30 days of Special Temporary Authority ("STA"),¹ commencing May 1, 2023, to operate an Xphased 0.3m Ku-band flat-panel antenna in Mt. Prospect, Illinois for stationary testing. Intelsat expects to test the antenna over a two month period.

During the proposed operations, the antenna will communicate with the Galaxy 16, Galaxy 18, and Intelsat 40e satellites in the 11700-12200 MHz and 14000-14500 MHz frequency bands. 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 filing fee, and this supporting letter electronically via the International Bureau's Filing System.

EXHIBIT A

Intelsat License LLC
Request for Special Temporary Authority

Antenna Description	Xphased PU3030
Antenna Size (m)	0.3
Transmit Frequencies (MHz)	14000-14500
Receive Frequencies (MHz)	11700-12200
Emission Designator(s)	1M23G7D
Polarization	Linear
Bandwidth (MHz)	1.229
Transmit Gain	30.6 dBi @ 14300 MHz (boresight) 28.1 dBi @ 14300 MHz (30° elevation angle)
Maximum EIRP per Carrier (dBW)	41.5 (boresight) 39.0 (30° elevation angle)
Maximum EIRP Density per Carrier (dBW/4 kHz)	6.5
Site Location 1: Latitude/Longitude (WGS84)	Mt. Prospect, IL 42° 4' 42.8" N, 87° 54' 56.4" W
Satellite Point(s) of Communication, Call Sign, and Orbital Location	Galaxy 16 (S2687) at 99.0° W.L. Galaxy 18 (S2733) at 123.0° W.L. Intelsat 40e (S3066) at 91.0° W.L. ¹

¹ Intelsat 40e is not yet in service. Communications with the satellite depend on its availability.