



July 10, 2021

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

**Re: Request for Special Temporary Authority**  
Castle Rock, Colorado Earth Station KL92

Dear Ms. Dortch:

Intelsat License LLC, as debtor in possession (“Intelsat”), herein requests a grant of Special Temporary Authority (“STA”)<sup>1</sup> for 30 days, commencing July 29, 2021, to use its Castle Rock, Colorado Ku-band earth station, Call Sign KL92, to provide launch and early orbit phase (“LEOP”) services for the QUANTUM satellite. QUANTUM is expected to launch on July 29, 2021,<sup>2</sup> and the LEOP period is expected to last approximately 15 days.

The QUANTUM operations will be performed at the following frequencies: 13750.2 MHz, 14000.00 MHz, and 14499.8 MHz in the uplink; and 11200.2 MHz and 11699.8 MHz in the downlink. The LEOP operations will be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path.<sup>3</sup> All operators of satellites in that path will be provided with an emergency phone number where the licensee can be reached in the event that harmful interference occurs.

The 24x7 contact information for the QUANTUM mission is as follows:

Ph.: (703) 559-7701 – East Coast Operations Center (primary)  
(310) 525-5591 – West Coast Operations Center (back-up)

Request to speak with Harry Burnham or Kevin Bell.

In further support of this request, Intelsat herewith attaches Exhibits A and B, which contain waiver requests and a 13.75 GHz-14.0 GHz report. In the extremely unlikely event that harmful interference should occur due to transmissions to or from its earth station, Intelsat will take all reasonable steps to eliminate the interference.

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<sup>1</sup> 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.

<sup>2</sup> Intelsat understands that the QUANTUM satellite is licensed by France. The in-orbit testing and final location for the QUANTUM satellite is 48.1° E.L.

<sup>3</sup> Airbus, the manager of the QUANTUM mission, will handle the coordination.

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Finally, Intelsat clarifies that during the QUANTUM LEOP mission, Airbus will serve as the mission manager. Airbus will build and send the commands to the Intelsat antenna, which will process and execute the commands. Telemetry received by Intelsat will be forwarded to Airbus. Intelsat will perform the ranging sessions by sending a tone to the spacecraft periodically. Intelsat will remain in control of the baseband unit, RF equipment, and antenna.

Grant of this STA request will allow Intelsat to help launch the QUANTUM satellite. This will help provide services at the 48.1° E.L. location and thereby promotes the public interest.

Please direct any questions regarding this STA request to the undersigned at (703) 559-6949.

Respectfully submitted,

/s/ Cynthia J. Grady

Cynthia J. Grady  
Assistant General Counsel  
Intelsat US LLC

cc: Paul Blais  
Kerry Murray