



January 9, 2023

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

Re: Request for 180-day Grant of Special Temporary Authority
Hagerstown, Maryland Earth Station KA258

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests 180 days of Special Temporary Authority ("STA"),¹ commencing upon grant, but no later than March 15, 2023, to use its Hagerstown, Maryland Ku-band earth station, Call Sign KA258, to provide launch and early orbit phase ("LEOP") and backup telemetry, tracking, and command services during in-orbit testing ("IOT") to Amazonas Nexus 6 (S3086).² Amazonas Nexus 6 is expected to launch on February 1, 2023.³ Intelsat expects the LEOP and IOT periods to last approximately 192 days in total.

The Amazonas Nexus 6 operations will be performed at the following frequencies: 13752.0 MHz and 14498.5 MHz in the uplink; and 11704.5 MHz and 12198.0 MHz in the downlink.⁴

The 24x7 contact information for the Amazonas Nexus 6 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 Glen Jones or Mike Ryan.

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 See *Satellite Policy Branch Information; Actions Taken*, Report No. SAT-01617, File No. SAT-PPL-20210510-00062 (Mar. 11, 2022) (Public Notice) (granting U.S. market access for Amazonas Nexus at 61.0° W.L.). Intelsat understands that the in-orbit testing location is 59.0° E.L.

³ In support the Amazonas Nexus 6 mission, Intelsat is simultaneously requesting 180 days of STA to utilize its Castle Rock, Colorado earth station, KL92. Intelsat has also requested 30 days of STA to utilize KA258 and KL92 beginning February 1, 2023. See Intelsat License LLC, Requests for Special Temporary Authority, Submission IDs IB2023000058 and IB2023000059 (filed Jan. 9, 2023).

⁴ In support of this request, additional operational information and a 13 GHz report are attached as Exhibits A and B, respectively

The LEOP operations will be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path.⁵ 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. 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.

Finally, Intelsat clarifies that during the Amazonas Nexus 6 LEOP mission, Thales will serve as the mission manager. Thales 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 Thales. 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 Amazonas Nexus 6 satellite. This will help provide services at the 61.0° W.L. orbital location and thereby promotes the public interest.

Please direct any questions regarding this STA request to the undersigned at (703) 559-7799.

Respectfully submitted,

/s/ W. Ray Rutngamlug

W. Ray Rutngamlug
Associate General Counsel
Intelsat US LLC

cc: Franco Hinojosa

⁵ Thales Alenia Space ("Thales"), the manager of the Amazonas Nexus 6 mission, will handle the coordination.

EXHIBIT A

Intelsat License LLC
Request for 180-day Grant of Special Temporary Authority

Earth Station Call Sign	KA258
Antenna size (m)	14.2
Transmit Frequencies (MHz)	13752.0 and 14498.5
Receive Frequencies (MHz)	11704.5 and 12198.0
Emission Designator	350KG2D
Polarization	Circular
Bandwidth	350 kHz
Transmit Gain	64.5 dBi at 13.750 GHz
Maximum EIRP per Carrier (dBW)	85
Maximum EIRP Density per Carrier (dBW/4 kHz)	65.5
Site Location	Hagerstown, MD
Latitude/Longitude (NAD83)	39° 35' 54" N, 77° 45' 33 W
Satellite Point(s) of Communication	Amazonas Nexus 6
Satellite Call Sign	S3086
Satellite Type	Geostationary
Satellite Location	n/a