

Intuitive Machines, LLC (“Applicant” or “IM”), pursuant to Section 25.120 of the Commission's Rules, 47 C.F.R. § 25.120, hereby requests Special Temporary Authority ("STA") for short-term testing of one fixed gateway earth station operating in the S- and X-bands (“Gateway 2”). This STA request corresponds with IM’s current “baseline” license application pending under File Number SES-LIC-20260312-00628 and Call Sign E260194 for operating authority of Gateway 2 (“Baseline Application”). The Catawissa Gateway – Radiation Hazard Studies and Catawissa Gateway – Exhibit B (FAA Notification) documents included with the Baseline Application are incorporated herein by this reference and apply to this STA request.

Gateway 2 is a 32.0-meter Nippon Electric antenna located at AT&T, Inc.’s (“AT&T”) Roaring Creek Earth Station in Catawissa, Pennsylvania (“Catawissa Teleport”). Gateway 2, subsequent to hardware upgrades undertaken by IM, will enjoy the ability to operate with total input power at the antenna flange not to exceed 2,050 Watts and total EIRP for all carriers not to exceed 96 dBW. IM will also retrofit the earth station with a tri-band feed enabling simultaneous operations across S-, X-, and Ka-band frequencies; however, IM does not seek STA to test Ka-band frequencies at this time. The proposed testing will involve Gateway 2 uplinking exclusively to the Lunar Reconnaissance Orbiter (“LRO”) satellite and the Capstone satellite, as set forth below:

ITU Name	ITU Status	Frequency Band, MHz	Center Frequency, MHz	Bandwidth, MHz	Emission Designator(s)
LRO	Notified	2025-2120	2091.397	1	1M00G2D
Capstone	Notified	7145-7235	7204.869	2.4	2M40G9D

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In 2024, the National Aeronautics and Space Administration (“NASA”) selected Intuitive Machines to support the agency’s lunar relay systems as part of the Near Space Network (“NSN”),

a system of earth-based ground stations and space relays designed to provide mission-critical telemetry, commanding, ground-based tracking, data and communications services to government and commercial missions. Gateway 2 will serve as one of the principal domestic points of communication for the NSN. In addition to communicating with the existing United States space assets above, the NSN will also support communications with future scientific and commercial missions, including NASA's Lunar Data Network ("LDN"), which involves a constellation of satellites manufactured by IM orbiting the Moon to provide critical relay communications services and navigation support for various lunar missions.

STA is sought for a period of 60 days beginning July 1, 2026, and concluding August 29, 2026. Grant of this request will serve the public interest by allowing IM to undertake an expedited initial evaluation of the earth station's capabilities in cooperation with NASA. More specifically, short-term testing will enable IM to demonstrate to NASA and other federal partners that the retrofitted 30+ meter antenna satisfies parameters needed for challenging missions, and to confirm the performance and utility of the bespoke tri-band feed implemented during the ongoing retrofit of the antenna.

The proposed STA will not create harmful interference or otherwise prejudice any third party. All operations pursuant to any STA will occur on a non-protected/non-interference basis. Further, communications between Gateway 2 and the NASA space assets identified above will occur only after successful coordination with federal incumbent agencies in the relevant S- and X-band, including NASA itself. The involved 32.0-meter antenna is also located in a remote and isolated part of central Pennsylvania, far removed from any auxiliary broadcast operations,¹ and

¹ IM has initiated coordination with the Society of Broadcast Engineers, and will file supplemental correspondence in the instant file when concluded.

will employ significant uptilt under all possible operating scenarios, further minimizing the possibility of creating harmful interference to incumbent spectrum users. Finally, the Catawissa Teleport is manned 24/7, and IM holds kill switch capability, which can be exercised in near real-time in the unlikely event that harmful interference occurs.

In summary, grant of this STA will enable IM to provide the government with a fundamental understanding of the earth station's capabilities, and allow NASA to move forward with important mission milestones. Accordingly, this application serves the public interest and should be granted.

The technical contact and kill switch operator for Gateway 2 is:

Michael Frazier
Manager – Business Field Services
AT&T Business – Customer Service and Operations
AT&T Corporation
311 Earth Station Road
Catawissa, Pennsylvania 17820
24x7 Mobile: +1 816-244-7504
mf4353@att.com