

EXHIBIT A - REQUEST FOR SPECIAL TEMPORARY AUTHORITY
TO CONDUCT EXPERIMENTAL OPERATIONS

Background and Description of Testing

AST & Science, LLC (“AST SpaceMobile”), pursuant to Section 5.61 of the Federal Communications Commission’s (“FCC” or the “Commission”) Rules, 47 C.F.R. § 5.61, hereby requests experimental special temporary authority (“STA” or “Authority”) to test off-the-shelf cellular handsets acting as mobile earth stations located in the jurisdiction identified in Table 1, in cooperation with its named local terrestrial wireless partner (“Cellular Partner”), employing AST SpaceMobile’s initial five (5) commercial non-geostationary orbit (“NGSO”) satellites (“Block 1 Bluebirds” or “BB1s”), operating from Low- Earth Orbit (“LEO”) to communicate with handsets inside the Cellular Partner’s authorized terrestrial wireless frequencies, pursuant to all required local authorizations.¹ AST SpaceMobile’s international testing will advance the Commission’s unambiguous goal of rapidly deploying supplemental coverage from space (“SCS”) to provide critical connectivity to unserved and underserved markets, demonstrating the Commission’s commitment to U.S. leadership in SCS across the globe.

International Testing Specifications	
Jurisdiction	Canada
Applicable Telecommunications Regulatory Body	Innovation, Science and Economic Development (“ISED”)
Cellular Partner	Bell Mobility [REDACTED]
STA Term	180 days, commencing on 25 April 2025

Table 1. International SCS Testing Specifications

[REDACTED]

¹ 47 C.F.R. § 5.61(a)(1). AST SpaceMobile successfully launched its Block 1 Bluebirds on September 12, 2024, pursuant to authority granted by the Commission under Call Sign S3065.

[REDACTED]

[illegible]

In addition to carefully coordinating with its Cellular Partner to ensure that the proposed testing occurs solely in geographic areas and frequencies approved by the local authority, in compliance with local regulations and ITU Radio Regulation Article 4.4, the BB1s will employ interference mitigations to protect other authorized spectrum uses, including the use of protection zones, and allocation of the off-the-shelf handsets to a carefully selected closed user group that AST SpaceMobile will supervise with the help of its Cellular Partner. Individual handsets under test will also be configured to operate on the Cellular Partner's networks and frequencies and should not present an interference threat even in the unlikely event that an end user attempts to use one outside of the Cellular Partners' network footprints. These measures should give the Commission confidence that AST SpaceMobile's foreign operations will not affect third parties

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and that the Commission's grant of this Authority will meet its international obligations regarding the prevention of interference.

Gateway Earth Station Operations and TT&C

AST SpaceMobile will conduct gateway earth station operations in Canada using V-Band frequencies in compliance with the applicable laws, regulations, rules, and licensing procedures of the applicable jurisdiction. [REDACTED]

[REDACTED] TT&C operations will occur outside Canada at the locations set forth in Appendix A of the FCC space station authorization at ICFS Call Sign S3065 in accordance with all applicable local authorizations.

Interference Protection

The proposed testing will not create harmful interference for any other authorized spectrum use.³

³ See Exhibit C.

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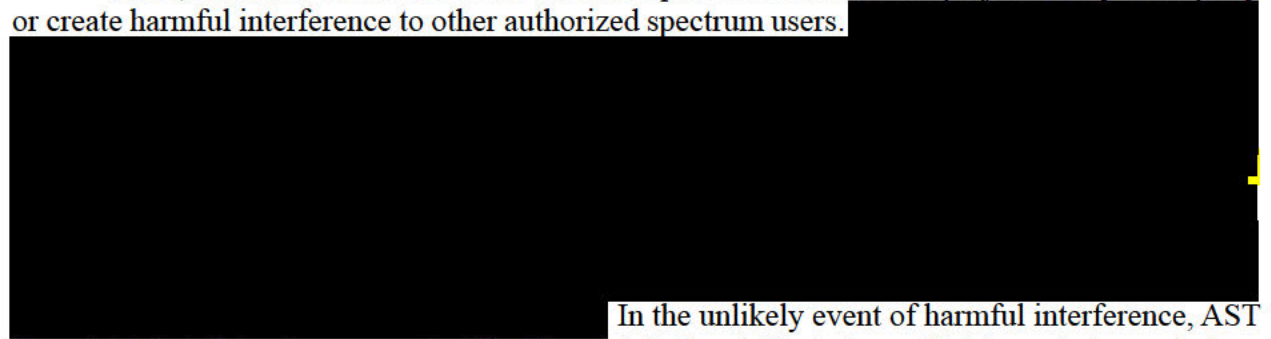
Justification for STA

Grant of this Authority is appropriate in the instance circumstances and serves the public interest.

First, the proposed operations align with the Commission's effort to implement its "single network future" seamlessly blending terrestrial and satellite networks that requires international coordination.⁴ These efforts will also support the American leadership in SCS by building on the Commission's innovative regulatory solutions and applying them to receive foreign authority.

Second, the instance circumstances serve the public interest. The Commission has expressly acknowledged the dramatic public interest benefits of SCS D2D services, including its ability to fill coverage gaps and connect unconnected or underconnected persons, and has stated that it wants to deliver these benefits "as rapidly as possible."⁵ The instant proposed tests will help advance this Commission objective.

Third, favorable treatment of the instant request for STA will not prejudice any third-party or create harmful interference to other authorized spectrum users.

 In the unlikely event of harmful interference, AST SpaceMobile's "stop buzzer contact"⁷ will maintain the ability to immediately mute transmissions between the BB1s and earth stations in Canada.

Accordingly, AST SpaceMobile respectfully requests that the Commission grant this experimental STA for D2D satellite communications for 180 days beginning April 25, 2025.

⁴ See *Single Network Future: Supplemental Coverage from Space*, GN Docket No. 23-65, IB Docket No. 22-271, Report and Order and Further Notice of Proposed Rulemaking, FCC 24-28 (rel. Mar. 15, 2024) ("SCS Report and Order").

⁵ SCS Report and Order at ¶ 53. See also *In the Matter of Single Network Future: Supplemental Coverage from Space, Space Innovation*, GN Docket No. 23-65, IB Docket No. 22-271, Notice of Proposed Rulemaking at ¶ 42 (Mar. 16, 2023) ("We strive to realize these public interest benefits as rapidly as possible . . .").

⁶ See OET Licenses.

⁷ See Exhibit B.