

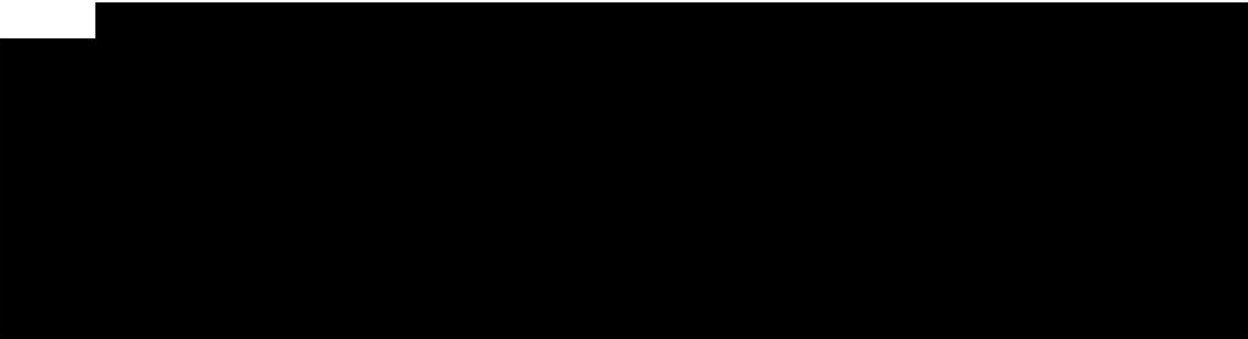
**EXHIBIT A - REQUEST FOR SPECIAL TEMPORARY AUTHORITY
TO CONDUCT EXPERIMENTAL OPERATIONS**

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	United Kingdom
Applicable Telecommunications Regulatory Body	Ofcom
Cellular Partner	Vodafone
STA Term	180 days, commencing on December 20, 2024

Table 1. International SCS Testing Specifications



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]

[REDACTED]

[REDACTED]

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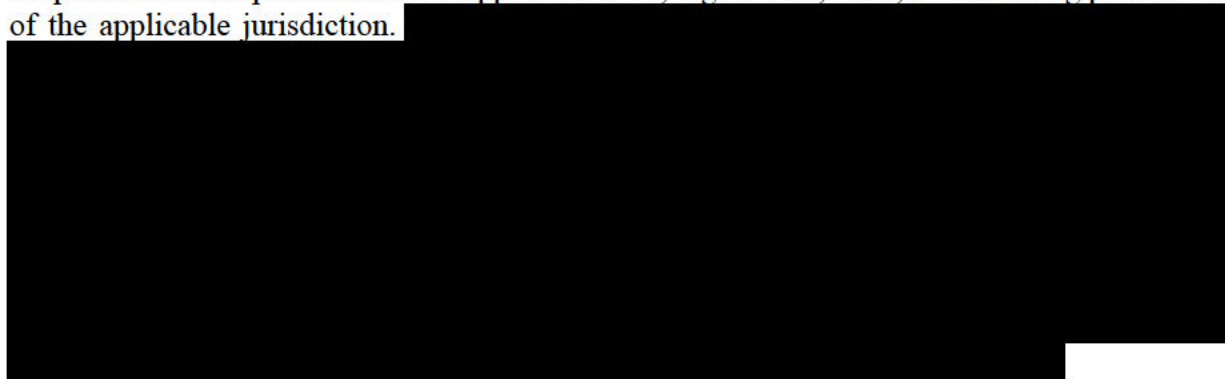
AST SpaceMobile will conduct the tests on a non-protected, non-interference basis in accordance with the technical specifications set forth in Exhibit B, and any local regulatory requirements, including applicable in-band, out-of-band, and cross-border limits, consistent with ITU Radio Regulation Article 4.4 and this STA. AST SpaceMobile will utilize the proposed testing to provide real-world data demonstrating that SCS services will complement its Cellular Partner's existing network while avoiding harmful interference to the Cellular Partner's network and to the networks of non-partner licensees.

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 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 using V-Band frequencies in compliance with the applicable laws, regulations, rules, and licensing procedures of the applicable jurisdiction.



Interference Protection

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

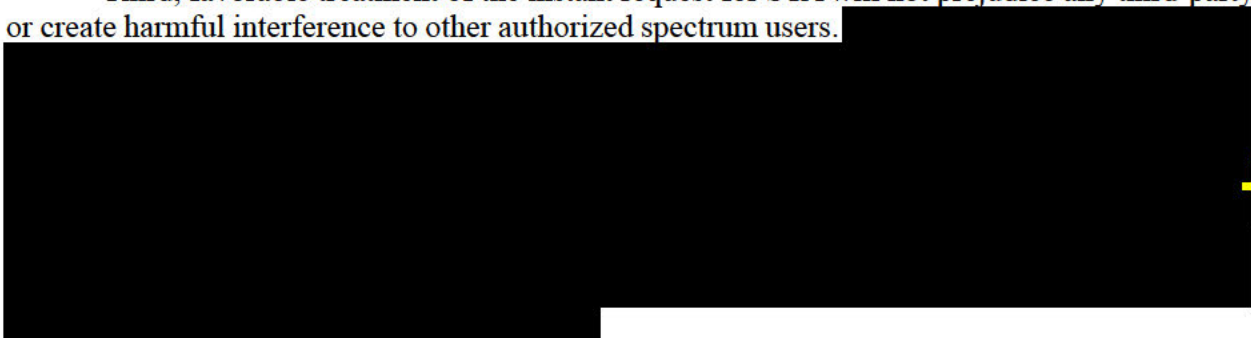


Justification for STA

Grant of this Authority is appropriate in the instant 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.³ 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 instant circumstances serve the public interest. The Commission has expressly acknowledged the dramatic public interest benefits of SCS D2D services, including their ability to fill coverage gaps and to aid first responders, and has stated that it wants to deliver these benefits "as rapidly as possible."⁴ 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.



Accordingly, AST SpaceMobile respectfully requests that the Commission grant this experimental STA for D2D satellite communications for 180 days beginning December 20, 2024.

³ 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").

⁴ SCS Report and Order, ¶ 53.

