

Before the
Federal Communications Commission
Washington, DC 20554

Application of

Muon Space Inc.

to Modify NGSO/EESS Launch and
Operating Authority

Call Sign: S3173

File No. _____

**Application to Modify NGSO/EESS Launch and Operating
Authority**

Muon Space Inc (“Muon”) hereby applies to modify its existing license to launch and operate a non-geostationary satellite orbit satellite system for the satellites known as MuSat-2, -3, and -4.¹ This modification requests minor changes to adjust the operational altitude of MuSat-3.

Muon certifies that any information relating to the currently authorized system not provided in this application remains unchanged.²

¹ Grant of Authority, ICFS File No. SAT-MOD-20250924-00300 (granted Mar. 30, 2026, reissued May 19, 2026).

² See 47 C.F.R. § 25.117(c), (d)(1).

I. Altitude modification

Due to changes in customer requirements, Muon seeks to increase the operational altitude of MuSat-3 from 525 km +/- 25 km, to 550 km +/- 25 km. This 25 km increase will not materially alter Muon's prior demonstrations that its system will comply with all applicable PFD limits and will not cause harmful interference to other terrestrial or space-based systems. Indeed, Muon previously sought, and the Commission granted, authority for MuSat-3 to operate at a maximum altitude of 575 km +/- 25km.³ Likewise, an increase in maximum operational altitude will not affect Muon's previous orbital-debris analysis, which accounted for both a 500 km minimum and 600 km maximum operational altitude.⁴

II. Other matters

A. Related FCC authorizations

Muon was issued an experimental radio authorization for Muon's first experimental satellite, MuSat-1, under Call Sign WN2XEC on May 4, 2023 (*see* OET ELS File No. 1334-EX-CN-2022). The Commission granted commercial authorization for MuSat-2 and -3 under Call Sign S3173 on January 30, 2024 (*see* ICFS File No. SAT-LOA-20230504-00103). The Commission granted commercial authorization for MuSat-4 under Call Sign S3173 on January 17, 2025 (*see* ICFS File Nos. SAT-MOD-20240614-00133; SAT-AMD-20240927-00207), granted a deferred portion of that application on April 15, 2025 (*see* ICFS File Nos. SAT-MOD-20240614-00133;

³ *See* Grant of Authority, ICFS File Nos. SAT-MOD-20240614-00133, SAT-AMD-20240927-00207 (granted Apr. 15, 2025); Application, Muon Space Inc., Technical Attachment 12-16, ICFS File No. SAT-MOD-20240614-00133 (Jun. 14, 2024). To the extent necessary, this analysis is hereby incorporated by reference.

⁴ *See* Application, Muon Space Inc., MuSat-3 Orbital Debris Mitigation Plan, ICFS File No. SAT-MOD-20240614-00133 (Jun. 14, 2024). To the extent necessary, this analysis is hereby incorporated by reference.

SAT-AMD-20240927-00207; SAT-AMD-20250304-00602), and granted a modification to that license on March 30, 2026 (*see* ICFS File No. SAT-MOD-20250924-00300 (reissued Apr. 8, 2026, May 1, 2026, and May 19, 2026)). The Commission granted commercial authorization for Muon's FireSat1, 2, and 3 satellites on May 1, 2026 (*see* ICFS File No. SAT-LOA-20251119-00332 (reissued May 19, 2026)).

B. ITU compliance

Muon is aware that the ITU charges processing fees for satellite network filings. As a consequence, Commission applicants are responsible for any and all fees charged by the ITU. Muon confirms that it is aware of this requirement and accepts responsibility to pay any ITU cost recovery fees associated with this application. Invoices for such fees may be sent to the contact representative listed in the accompanying FCC Form 312.

Pursuant to 47 C.F.R. § 25.111, Muon understands that the Commission will submit filings to the ITU on Muon's behalf pursuant to international obligations for the coordination and registration of space network systems. Muon will provide the Commission the appropriate electronic files for submission to the ITU along with this application.

III. Conclusion

For the foregoing reasons, and for the reasons set forth in the accompanying materials, Muon requests that the Commission find that authorizing the modifications to the Muon system proposed herein would serve the public interest and modify Muon's license accordingly.

* * * *

Respectfully submitted,

MUON SPACE INC.

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