

**Before the
Federal Communications Commission
Washington, DC 20554**

In the Matter of	)	
	)	
Venturi Astrolab, Inc.	)	File No. SAT-MOD-20260720-00300
	)	
Application to Modify License	)	Call Sign: S00733

MODIFICATION APPLICATION

Venturi Astrolab, Inc. (Astrolab) requests modification of the above-referenced authorization for its FLEX Lunar Innovation Platform (FLIP) lunar mission. FLIP is a commercial lunar rover mission scheduled to launch during the second half of 2026 aboard Astrobotic's Griffin Mission One as part of the mission designated Moon Base II by NASA. FLIP is expected to operate on the lunar surface for no more than 90 days. The mission's objective is to validate key technologies in the lunar environment that will mature Astrolab's core rover technologies and reduce risk for future missions, including Crewed Lunar Vehicle 1 (CLV-1), Astrolab's crewed lunar rover being developed under NASA's Lunar Terrain Vehicle Services (LTVS) contract.

Following grant of Astrolab's FLIP FCC authorization on 06-09-2026, Astrolab completed additional coordination with the agencies identified in license condition 4, including the Department of Commerce/National Oceanic and Atmospheric Administration (DOC/NOAA), the Air Force Spectrum Management Office (AFSMO), the Department of the Navy (DoN), and the National Aeronautics and Space Administration (NASA). As a result of that coordination, all parties agreed to revised protection criteria for the Inuvik earth station as well as the addition of uplink capability from the Svalbard earth station in support of the FLIP mission.

Accordingly, Astrolab requests that the Commission modify the authorization to reflect a revised Appendix A: Coordinated Earth Stations, provided as an attachment hereto, and revised

License Condition 5, as described below. Astrolab requests no further changes to its authorization other than those provided in this application.

I. Modification of License Condition 5.a

License Condition 5.a currently states:

5.a. Astrolab must limit the uplink (Earth-to-space) transmission duty cycle from the Inuvik, Canada earth station to no more than 25%. Duty cycle is referenced to the duration of each visibility opportunity from the Inuvik, Canada earth station to the FLIP rover.

Astrolab obtained a Foreign Satellite Approval (FSA) on 06-03-2026 from Innovation, Science and Economic Development Canada (ISED), Canada's national spectrum management authority, authorizing FLIP operations through the Inuvik earth station. In light of the issuance of the FSA, Astrolab has now completed additional coordination with U.S. federal spectrum managers to broaden the ability to use the Inuvik earth station by replacing the current 25 percent duty-cycle limitation with a more limited condition requiring safing when specific spacecraft are within a certain angle. Accordingly, Astrolab requests that License Condition 5.a be revised to:

5.a. Astrolab shall cease Earth-to-space transmissions whenever JPSS-1/NOAA-20 (NORAD ID: 43013), JPSS-2/NOAA-21 (NORAD ID: 54234), or Suomi National Polar-orbiting Partnership ("SNPP") (NORAD ID: 37849) is within a conjunction angle of 3 degrees, as measured from the boresight of the Inuvik, Canada earth station antenna.

This revised condition reflects the protection criteria provided by DOC/NOAA following completion of coordination and agreed to by AFSMO, DoN, and NASA.

II. Modification of License Condition 5.b and Revised Appendix A

Astrolab has similarly completed coordination with DOC/NOAA, AFSMO, DoN, and NASA, regarding use of the KSAT Svalbard earth station for uplink operations centered at 2069.1354 MHz. Consistent with that Coordination, Astrolab requests the Commission revise

Appendix A to reflect the Svalbard, Norway earth station and revise license condition 5.b to reflect the protection requirements agreed to pursuant to such coordination.

License Condition 5.b currently states:

5.b. *Astrolab must cease Earth-to-space transmissions whenever the Pandora spacecraft (NORAD ID: 67395) is within 10 degrees of the Svalbard, Norway earth station antenna boresight.*

Astrolab requests that License Condition 5.b be revised to incorporate the agreed to coordination criteria for use of the Svalbard Earth station, as follows:

5.b. *Astrolab shall cease Earth-to-space transmissions whenever the Pandora spacecraft (NORAD ID: 67395) is within 10 degrees of the Svalbard, Norway earth station antenna boresight, or whenever JPSS-1/NOAA-20 (NORAD ID: 43013), JPSS-2/NOAA-21 (NORAD ID: 54234), or Suomi National Polar-orbiting Partnership (“SNPP”) (NORAD ID: 37849) is within a conjunction angle of 5 degrees, as measured from the boresight of the Svalbard, Norway earth station antenna.*

The requested modifications reflect the completed coordination with DOC/NOAA, AFSMO, DoN, and NASA and will permit Astrolab to conduct the FLIP mission while continuing to protect federal spacecraft. Accordingly, Grant of Astrolab’s request to modify the application is in public interest.

Respectfully submitted,

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Venturi Astrolab, Inc.
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Appendix A: Coordinated Earth Stations

Downlink (space-Earth) earth stations in S-band and X-band

1. Inuvik, Canada
2. Svalbard, Norway
3. Western Australia
4. Byalalu, India
5. Byalalu, India
6. Irbene, Latvia
7. Maspalomas, Spain
8. Maspalomas, Spain
9. Santiago, Chile
10. South Point, Hawaii
11. Esrange, Sweden

Uplink (Earth-space) earth stations in S-band

1. Inuvik, Canada
2. Western Australia
3. Byalalu, India
4. Byalalu, India
5. Irbene, Latvia
6. Maspalomas, Spain
7. Maspalomas, Spain
8. Santiago, Chile
9. South Point, Hawaii
10. Svalbard, Norway