



PERMITTING DECISION SUMMARY

AuroraSat-1

Aurora Propulsion Technologies Oy

1. Aurora Propulsion Technologies Oy (Aurora) is a satellite component manufacturing company based in Finland. Aurora develop attitude control and orbital maneuvering solutions for small satellites.
2. The AuroraSat-1 satellite is a 1.5U CubeSat (170mm (L) x 112mm (W)). Its mission is the in-orbit 'proof of concept' demonstration of two systems:
 - a. A propulsion system for attitude control (important for alignment of solar panels towards the sun, and pointing instruments such as cameras and antennas towards Earth).
 - b. A Plasma Brake deorbiting system (a microtether-based Coulomb drag device that generates a drag force that will slowly lower the satellite's orbit).
3. Payloads are permitted in line with the [Outer Space and High-altitude Activities Act 2017](#) (OSHAA) and the [Outer Space and High-altitude Activities \(Licences and Permits\) Regulations 2017](#).
 - a. Each payload has been approved by the Minister for Economic Development, on advice from officials across agencies. When approving payloads, the Minister needs to be satisfied that:
 - b. The applicant has taken and will continue to take all reasonable steps to safely manage the operation of the payload;
 - c. The proposed operation of the payload is consistent with New Zealand's international obligations; and
 - d. The applicant has an orbital debris mitigation plan that meets prescribed requirements.
 - e. Despite being satisfied of these matters, the Minister may nevertheless decline a permit if he is not satisfied that the proposed operation of the payload is in New Zealand's national interest.

Date Granted	Authorisation Number	Payload Name	Owner or Operator	Country of Origin
6 September 2021	210186-PPT	AuroraSat-1	Aurora Propulsion Technologies Oy	Finland