



PERMITTING DECISION SUMMARY

CICERO 10

Tyvak Nano-Satellite Systems Inc

1. Tyvak Nano-Satellite Systems Inc design, build and provide nanosatellite and CubeSat space vehicle services for government and commercial customers. They are based in Irvine, California.
2. CICERO 10 (Community Initiative for Cellular Earth Remote Observation) is one of an array of Tyvak 6U CubeSats powered by solar cells and batteries.
3. The mission of the CICERO array is to perform GPS and Galileo radio occultation assessments of Earth's atmosphere. It also has surface remote sensing by Global Navigation Satellite System reflection. Cicero delivers data on the Earth to scientists and decision-makers worldwide. The principal applications of the Cicero array are Earth-based weather forecasting, climate research and space weather monitoring.
4. 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](#).
5. 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:
 - a. The applicant has taken and will continue to take all reasonable steps to safely manage the operation of the payload;
 - b. The proposed operation of the payload is consistent with New Zealand's international obligations; and
 - c. The applicant has an orbital debris mitigation plan that meets prescribed requirements.
 - d. 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.
6. Prior to the OSHAA, the [contract with Rocket Lab](#) allowed the Government to veto the launch of any payload that it determined was contrary to New Zealand law, regulations or policy, was contrary to New Zealand's international obligations or would prejudice New Zealand's national security or other national interests. Every payload launched by Rocket Lab under the contract was assessed against these interests.

Date Granted	Authorisation Number	Payload Name	Owner or Operator	Country of Origin
20 January 2018	180006-CPY	CICERO 10	Tyvak Nano-Satellite Systems Inc	United States