



## PERMITTING DECISION SUMMARY

### APSS-1-QuakeTec

#### University of Auckland

1. The University of Auckland has started an undergraduate programme on the study of space systems. The programme works to identify societal needs that can be met with space-based technical solutions, and to then put the relevant equipment onto a CubeSat.
2. APSS-1-QuakeTEC is an off-the-shelf 1U CubeSat. The students of the programme have designed and built the payload.
3. The payload collects data from space to investigate whether there is a link between atmospheric activity and tectonic activity on Earth.
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
18 June 2019	180045-PPT	APSS-1-QuakeTec	University of Auckland	New Zealand



**NEW ZEALAND  
SPACE AGENCY**



**PAYLOAD PERMIT**  
**180045-PPT**

I, Hon David Parker, as Minister for Economic Development, acting pursuant to section 17 of the Outer Space and High-altitude Activities Act 2017 grant a Payload Permit to:

**The University of Auckland**

The University of Auckland is authorised to launch and operate 'APSS-1-QuakeTEC', for the purpose of technology demonstration and education.

This permit will take effect upon signature and will expire when the payload is launched and is no longer in the Earth's orbit.

This permit is granted subject to the Outer Space and High-altitude Activities Act 2017 and all regulations under the Act, and the conditions of the permit.

18/6/19

Dated

Hon David Parker  
Minister for Economic Development