



PERMITTING DECISION SUMMARY

SERC

SERC Limited

1. The Space Environment Research Centre (SERC) is a Cooperative Research Centre funded by the Australian Department of Industry, innovation and Science. The Cooperative Research Centre programme supports industry-led collaborations between industry, researchers and the community. SERC's research focuses on managing orbital debris.
2. The primary mission of 'SERC' is to measure the strength of a laser sent from an observatory in Canberra as it passes through the atmosphere over Australia.
3. A further mission is to use a retroreflector on the satellite to accurately measure its position. A retroreflector is a mirror designed to reflect light back to its source.
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.

Date Granted	Authorisation Number	Payload Name	Owner or Operator	Country of Origin
19 December 2019	190102-PPT	SERC	SERC Limited	Australia



**NEW ZEALAND
SPACE AGENCY**



PAYLOAD PERMIT
190102 - PPT

I, Hon Phil Twyford, 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:

SERC Limited

SERC Limited is authorised to launch and operate one 'Serc' payload, for the purpose of technology demonstration.

This permit will take effect upon signature, and will expire
(i) two (2) years from that date, or

(ii) if the payload is launched, when the payload 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.

19.12.19

Dated

Hon Phil Twyford
Minister for Economic Development