



PERMITTING DECISION SUMMARY

TRSI

Union Aerospace Components

1. Union Aerospace Components is a company based in Germany. Their core business is conducting research and development in science, technology and engineering.
2. The TRSI 'PocketQube' satellite is a miniaturised satellite with a size of 125cm³ and is constructed from off-the-shelf materials. The primary purpose of TRSI is to conduct a technology demonstration involving two experiments to show that a range of communication capabilities can be achieved by a small satellite.
3. TRSI will be collecting Automatic Dependent Surveillance-Broadcast data which is publicly broadcast by aircraft to other aircraft and air traffic control, for space situational awareness purposes.
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
30 October 2019	180064-PPT	TRSI	Union Aerospace Components	Germany



**NEW ZEALAND
SPACE AGENCY**



PAYLOAD PERMIT
180064-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:

Union Aerospace Components

Union Aerospace Components is authorised to launch and operate one 1/8U PocketQube satellite ('TRSI'), for the purpose of technology demonstration.

This permit will take effect upon signature, and will expire
(i) three years from the date of signature, 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.

30 OCT 2019

Dated

Hon Phil Twyford
Minister for Economic Development



New Zealand Government