



**PERMITTING DECISION SUMMARY**

**NOOR-1A/NOOR-1B**

**Stara Technologies Corporation**

1. Stara Technologies Corporation (Stara) is a company based in the United States which designs and invents engineering solutions, particularly in the development of Aerial Delivery Systems for small payloads.
2. The NOOR-1A and NOOR-1B 'PocketQube' satellites are both miniaturised satellites with a size of 5cm<sup>3</sup>. The primary mission is to test, develop and demonstrate low Earth orbit intersatellite link technology communicating with ground stations on Earth. These are crucial technologies required to create a real-time global communications constellation in space.
3. Stara is also testing a new solar panel mechanism, which increases the radar reflectivity to that of a standard CubeSat or greater.
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.

<b>Date Granted</b>	<b>Authorisation Number</b>	<b>Payload Name</b>	<b>Owner or Operator</b>	<b>Country of Origin</b>
30 October 2019	190072-PPT	NOOR-1A and NOOR-1B	Stara Technologies Corporation	USA



**NEW ZEALAND  
SPACE AGENCY**



**PAYLOAD PERMIT**  
**190072 - 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:

**Stara Technologies Corporation**

Stara Technologies Corporation is authorised to launch and operate two 1/8U PocketQube satellites ('NOOR-1A' and 'NOOR-1B'), 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