



## PERMITTING DECISION SUMMARY

### Faraday-1

#### In-Space Missions Ltd

1. In-Space Missions Ltd (In-Space) was established in 2015 to develop new space missions and to provide consultancy and procurement support to the space industry. In-Space is based in the United Kingdom.
2. Faraday-1 is a 6U CubeSat; a type of miniaturised satellite for space research that uses commercial off-the-shelf components for its electronics and structure. It provides the platform for six other hosted payloads which are operated by different companies, including the transmission and receipt of data. It will also provide other services critical to the functionality of the hosted payloads, such as power and communication. Two wings of three solar panels (on each wing) will be deployed to supply the main source of power.
3. Faraday-1 includes In-Space's own payload, which will conduct a radio technology demonstration for spectrum monitoring and provides the platform in which the other individual payloads are hosted.
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	190086-PPT	Faraday-1	In-Space Missions Ltd	United Kingdom



**NEW ZEALAND  
SPACE AGENCY**



**PAYLOAD PERMIT**  
**19 0086 - 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:

**In-Space Missions Limited**

In-Space Missions Limited is authorised to launch and operate one 'Faraday-1' 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