



## PERMITTING DECISION SUMMARY

### M2 Pathfinder

#### University of New South Wales

1. The M2 Pathfinder satellite is the result of collaboration between the University of New South Wales and the Australian Government.
2. The M2 Pathfinder will test communications architecture and other technologies which will assist in informing the future space capabilities of Australia.
3. The satellite will demonstrate the ability of an onboard software-based radio to operate and reconfigure while in orbit. It will also provide flight heritage for in-house developed satellite components.
4. Payloads are permitted in line with the [Outer Space and High-altitude Activities Act 2017](#) (OSHA) 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	190096-PPT	M2 Pathfinder	University of New South Wales	Australia



**NEW ZEALAND  
SPACE AGENCY**



## PAYLOAD PERMIT

190096-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:

### University of New South Wales

The University of New South Wales is authorised to launch and operate one M2 Pathfinder  
Payload for the purpose of technology demonstration.

This permit will take effect upon signature and will expire if;

- (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