



PERMITTING DECISION SUMMARY

Palisade

Astro Digital US Inc

1. Astro Digital US Inc (Astro Digital) provides customers with space-based systems and mission support services for applications such as Earth observation, satellite communications and technology demonstration.
2. Palisade is a 16U CubeSat bus with on-board propulsion, solar cells and batteries. Palisade is a technology demonstration satellite. It includes a communication system developed by Astro Digital and a software system developed by Advanced Solutions Inc.
3. 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](#).
4. 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
11 October 2019	190094-PPT	Palisade	Astro Digital US Inc	United States



**NEW ZEALAND
SPACE AGENCY**



PAYLOAD PERMIT
190094-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:

Astro Digital US, Inc.

Astro Digital is authorised to launch and operate one (1) 16U Palisade satellite, 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.

11.10.19

Dated

Hon Phil Twyford
Minister for Economic Development.