



## PERMITTING DECISION SUMMARY

### ALE-2

#### Ale Co. Ltd.

1. Ale Co. Ltd is a company based in Japan that has developed space-based fireworks which mimic shooting starts in the night sky.
2. The ALE-2 payload creates artificial meteor showers over nominated areas for the purpose of entertainment, education and scientific purposes. It does so by releasing small particles which burn brightly as they enter the Earth's atmosphere.
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
17 September 2019	190060-PPT	ALE-2	ALE Co. Ltd	Japan



**NEW ZEALAND  
SPACE AGENCY**



**PAYLOAD PERMIT**  
**190060-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:

**ALE Co. Ltd.**

ALE Co. Ltd. is authorised to launch and operate one ALE-2 payload for the purpose of creating artificial meteor showers.

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.

17.9.19

Dated

Hon Phil Twyford  
Minister for Economic Development