



PERMITTING DECISION SUMMARY

SHFT-1

NASA Jet Propulsion Laboratory

1. The Jet Propulsion Laboratory is a NASA research facility with a long history of developing new technologies for the exploration of space. They developed the first Earth-orbiting satellite and created the interplanetary spacecraft which took rovers to Mars.
2. SHFT-1 is a 3U CubeSat with deployable fixed solar arrays.
3. The SHFT-1 mission collects radio signals from outside the Earth's atmosphere to further research into galactic background emissions, high frequency signals from Jupiter and the signals from terrestrial transmitters after they have passed through the Earth's ionosphere.
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.
6. Prior to the OSHAA, the [contract with Rocket Lab](#) allowed the Government to veto the launch of any payload that it determined was contrary to New Zealand law, regulations or policy, was contrary to New Zealand's international obligations or would prejudice New Zealand's national security or other national interests. Every payload launched by Rocket Lab under the contract was assessed against these interests.

Date Granted	Authorisation Number	Payload Name	Owner or Operator	Country of Origin
20 March 2018	180020-CPY	SHFT-1	NASA Jet Propulsion Laboratory	United States