

January 09, 2020



U.S. Department
of Transportation

East Building, PHH-30
1200 New Jersey Avenue S.E.
Washington, D.C. 20590

**Pipeline and Hazardous
Materials Safety Administration**

DOT-SP 15985
(SIXTH REVISION)

EXPIRATION DATE: 2023-11-30

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Space Exploration Technologies Corp.
Hawthorne, CA
2. PURPOSE AND LIMITATION:
 - a. This special permit authorizes the transportation in commerce of certain hazardous materials as part of the Falcon Launch Vehicle without requiring marking and labeling. This special permit provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein. The most recent revision supersedes all previous revisions.
 - b. The safety analyses performed in the development of this special permit only considered the hazards and risks associated with the transportation in commerce.
 - c. No party status will be granted to this special permit.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 172.300 and 172.400 in that marking and labeling of the packagings contained within the capsule is not required, and Part 173 in that non-specification packagings are authorized as described herein.
5. BASIS: This special permit is based on the application of Space Exploration Technologies Corp. dated December 12, 2019 submitted in accordance with § 107.109.

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6. HAZARDOUS MATERIALS (49 CFR § 172.101):

| Hazardous Materials Description | | | |
|--|-------------------------------|------------------------------|----------------------|
| Proper Shipping Name | Hazard Class/ Division | Identification Number | Packing Group |
| Kerosene | 3 | UN1223 | III |
| Organometallic substance, liquid, pyrophoric, water-reactive | 4.2 | UN3394 | I |
| Lithium ion batteries, contained in equipment | 9 | UN3481 | N/A |
| Charges, shaped, flexible, linear | 1.1D | UN0288 | N/A |
| Fuzes, detonating | 1.4S | UN0367 | N/A |
| Detonators, electric | 1.4B | UN0255 | N/A |

7. SAFETY CONTROL MEASURES:

a. PACKAGING: The non-DOT specification packagings authorized herein are integral components of the Falcon Launch Vehicle. Design and testing of the Falcon Launch Vehicle and the integral hazardous material packagings must be in accordance with the drawings, specifications and descriptions as presented in the Space Exploration Technologies, Corporation application on file with the Office of Hazardous Materials Safety Approvals and Permits Division (OHMSAPD).

b. OPERATIONAL CONTROLS:

(1) The design, construction and testing of the Falcon launch vehicle and the integral hazardous materials packaging must be in accordance with the Space Exploration Technologies Corporation application on file with OHMSAPD.

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(2) The maximum quantities of hazardous materials and any associated system pressures must be in accordance with those values listed in the Space Exploration Technologies Corporation application on file with OHMSAPD.

(3) The integrity of the hazardous materials packaging within the Falcon launch vehicle must be checked prior to transport in accordance with "SPX-00008504" and "10.200 - F9 Post Recovery Operations" documents.

(4) Two qualified and trained drivers must transport the Falcon launch vehicle. The transport vehicle must be attended at all times by a driver. Drivers must be trained in the dangers of the hazardous materials and measures to be taken in the event of an accident or emergency.

(5) Two pilot cars must be assigned to the transport operation.

(6) Lithium ion cells and batteries must be offered for transportation at a state of charge no greater than 90%.

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this special permit who receives a package covered by this special permit may reoffer it for transportation provided no modification or change is made to the package and it is reoffered for transportation in conformance with this special permit and the HMR.

b. An emergency response plan, including contact information, must be prepared for each specific route.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle and cargo vessel.

10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each motor vehicle and cargo vessel used to transport packages covered by this special permit.

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11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this special permit and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

- o All terms and conditions prescribed in this special permit and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- o Persons operating under the terms of this special permit must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.
- o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this special permit must receive training on the requirements and conditions of this special permit in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this special permit, including display of its number, when this special permit has expired or is otherwise no longer in effect.

Under Title VII of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU)—"The Hazardous Materials Safety and Security Reauthorization Act of 2005" (Pub. L. 109-59), 119 Stat. 1144 (August 10, 2005), amended the Federal hazardous materials transportation law by changing the term "exemption" to "special permit" and authorizes a special permit to be granted up to two years for new special permits and up to four years for renewals.

12. REPORTING REQUIREMENTS: Shipments or operations conducted under this special permit are subject to the Hazardous Materials Incident Reporting requirements specified in 49 CFR §§ 171.15 Immediate notice of certain hazardous materials incidents, and 171.16 Detailed hazardous materials incident reports. In addition, the grantee(s) of this special permit must notify the Associate Administrator for

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Hazardous Materials Safety, in writing, of any incident involving a package, shipment or operation conducted under terms of this special permit.

Issued in Washington, D.C.:



for William Schoonover
Associate Administrator for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Material Safety Administration, U.S. Department of Transportation, East Building PHH-30, 1200 New Jersey Avenue, Southeast, Washington, D.C. 20590.

Copies of this special permit may be obtained by accessing the Hazardous Materials Safety Homepage at http://hazmat.dot.gov/sp_app/special_permits/spec_perm_index.htm. Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PO: Andrew Eckenrode