



U.S. Department
of Transportation

**Pipeline and Hazardous
Materials Safety
Administration**

May 05, 2025

1200 New Jersey Avenue, SE
Washington, DC 20590

DOT-SP 21986

EXPIRATION DATE: 2025-10-31

(FOR RENEWAL, SEE 49 CFR 107.109)

1. GRANTEE: Space BD Inc.
Tokyo, Japan

US AGENT: ShipMate Inc.
Sisters, OR

2. PURPOSE AND LIMITATIONS:

a. This emergency special permit authorizes the transportation in commerce of prototype and low production lithium ion batteries. This special permit provides no relief from the Hazardous Materials Regulations (HMR) or the International Civil Aviation Organization's Technical Instructions for the Safe Transport of Dangerous Goods by Air (ICAO TI) 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 transportation in commerce. The safety analyses did not consider the hazards and risks associated with use, use as a component of a vehicle or other device, or other uses not associated with transportation in commerce.

c. This special permit serves as an approval under Special Provision A88 and State Variation US 3 of the ICAO TI, and as a "Competent Authority Approval" as defined under 49 CFR § 107.1.

d. No party status will be granted for this special permit.

3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171- 180.

4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.185(a)(1) in that prototype and low production lithium ion batteries are not of a type that has passed the criteria in Part III, subsection 38.3 of the UN Manual of Tests and Criteria.

Tracking Number: 2025044264

5. BASIS: This emergency special permit is based on the application of Space Bd Inc. dated April 1, 2025, and supplemental information dated April 21, 2025, submitted in accordance with § 107.117 and the determination it was necessary to prevent significant economic loss.
6. HAZARDOUS MATERIALS (49 CFR 172.101):

Hazardous Material Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Lithium ion batteries including <i>lithium ion polymer batteries</i>	9	UN3480	N/A

7. SAFETY CONTROL MEASURES:

- a. PACKAGING: Prescribed batteries are packaged as follows:
- (1) Inner Packaging: Each battery must be individually packed in a non-metallic inner packaging and surrounded by cushioning material that is non-combustible and electrically non-conductive;
 - (2) Outer packaging: Each inner packaging must be further packaged in a UN 4G outer packaging that meets Packing Group I performance criteria;
 - (3) The aggregate net weight of the battery per the outer package may not exceed 9.3 kg (21 pounds); and
 - (4) Packaging must comply with the requirements in Packing Instruction 910 of the Supplement to the ICAO TI.
- b. TESTING: Cells within the batteries must be of a type proven to have passed all required tests as specified in the “UN Manual of Tests and Criteria” 5th Revised Edition.
- c. OPERATIONAL CONTROLS:
- (1) Only prototype and low production lithium ion batteries as described in the application of Space BD, Inc. dated April 1, 2025, and on file with the Office of Hazardous Materials Safety may be offered for transportation under the terms of this special permit. (“Low production” is defined as a production run of no more than 100 batteries annually of a particular type.)

(2) Each battery (Model FM and Model FM2) consists of 12 prismatic cells (Model NP22111F10FHB), with each cell having a nominal voltage of 2.4 V and a nominal current capacity of 23 Ah and providing a maximum energy capacity of 52.9 Wh.

(3) All batteries must be offered for air transportation at a state of charge not exceeding 30 percent.

(4) Each battery (Model FM and Model FM2) must comply with all the conditions of this special permit prior to being offered for transportation.

(5) Cells and batteries must be protected against short circuiting, and the batteries must be equipped with an effective means of preventing dangerous reverse current flow for the batteries that contain cells connected in parallel.

d. MARKING: Each package, and overpack if used, prepared under the provisions of this special permit must be plainly marked with the special permit number: "DOT-SP 21986."

8. SPECIAL PROVISIONS:

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

b. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle and cargo-only aircraft.

10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each aircraft or motor vehicle used to transport packages covered by this special permit. The shipper must furnish a copy of this special permit to the air carrier before or at the time the shipment is tendered.

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 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 Materials Safety Administration, U.S. Department of Transportation, East Building PHH-13, 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 <https://www.phmsa.dot.gov/approvals-and-permits/hazmat/special-permits-search>. Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PO: SH/TG