



U.S. Department  
of Transportation

**Pipeline and Hazardous  
Materials Safety  
Administration**

**August 28, 2023**

1200 New Jersey Avenue, SE  
Washington, DC 20590

DOT-SP 21527  
(FIRST REVISION)

**EXPIRATION DATE: 2027-07-31**

(FOR RENEWAL, SEE 49 CFR 107.109)

1. GRANTEE: AllTransPack, Inc.  
Sterling, VA
2. PURPOSE AND LIMITATION:
  - a. This special permit authorizes the transportation in commerce of prototype and low production lithium ion batteries that have not completed all U.N. tests and exceed 35 kg net weight by cargo-only aircraft. 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 the transportation in commerce.
  - c. No party status will be granted to this special permit.
  - d. 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.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180 and the ICAO TI.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 172.101 Column 9B in that the prototype and low production lithium ion batteries may exceed 35 kg; and § 173.185(a)(1) in that prototype and low production lithium batteries have not passed the criteria in Part III, subsection 38.3 of the UN Manual of Tests and Criteria.

Tracking Number: 2023065274

5. BASIS: This special permit is based on the application of AllTransPack, Inc. dated June 28, 2023, submitted in accordance with § 107.109.
6. HAZARDOUS MATERIALS (49 CFR 172.101):

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

7. SAFETY CONTROL MEASURES:

a. OPERATIONAL CONTROLS:

- (1) Only prototype and low production lithium ion batteries, as identified in AllTransPack, Inc.'s application dated February 15, 2023, and on file with the Office of Hazardous Materials Safety (OHMS), with a net weight exceeding 35 kg may be offered for transportation under the terms of this special permit. ("Low production" is defined as a production run of not more than 100 cells or batteries annually of a particular type.)
- (2) The state of charge for the lithium ion batteries may not exceed 30% when offered for transportation.
- (3) An effective means of preventing dangerous reverse current flow must be provided when cells are connected in parallel.

b. TESTING AND INSPECTION FOR EACH TYPE:

- (1) All lithium ion cells must be of a type that has passed all required tests as specified in the "UN Manual of Tests and Criteria, 7<sup>th</sup> Revised Edition."
- (2) Lithium ion batteries (prototype and low production) are not required to be of a type that has passed all required tests as specified in the "UN Manual of Tests and Criteria, 7<sup>th</sup> Revised Edition."
- (3) Cells and batteries are considered safe to transport under the terms of this special permit if the cells have passed the UN-required tests and if the batteries

show no disassembly and fire after completion of an overcharge test and thermal runaway test conducted to meet Electra.aero Inc.'s own standards. A cell or battery type that has not passed these tests is not authorized to be offered for or transported under the terms of this special permit.

c. PACKAGING REQUIREMENTS:

- (1) Batteries must be individually packed in inner packagings that completely enclose the batteries and surrounded by cushioning material that is non-combustible, and electrically non-conductive.
- (2) Batteries must be protected against short circuiting.
- (3) Batteries must be further packaged in a UN 4B outer packaging that meets Packing Group I performance criteria.
- (4) The maximum gross weight of each package must not exceed 102 kg.
- (5) The packaging must have enough handles as per manufacturer's safety requirements, as identified in AllTransPack, Inc.'s application dated February 15, 2023, and on file with the OHMS, (i.e., the packaging must have 2 handles when the battery weighs 60 kg or more and; must have 4 handles when the battery weight is 120 kg or more).
- (6) A battery with a net mass of more than 30 kg must be limited to one battery per outer packaging.

d. MARKING REQUIREMENTS: 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 21527.

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. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.
- c. This special permit in no way affects the need to obtain any required authorizations from other agencies of the United States Government or from the competent authorities of countries of origin, transit, destination or State of the Operator.

d. For each cell and battery type, the grantee must maintain the following record and upon request make this record available to DOT representatives or enforcement officials. The record to be maintained is as follows:

(1) A description of each cell and battery type and types of tests conducted and test results prior to offering for transportation.

(2) Dates and description of each shipment, to include number of cells and batteries.

9. MODES OF TRANSPORTATION AUTHORIZED: Cargo-only aircraft.
10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each aircraft 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 Material 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: KH