



U.S. Department
of Transportation

**Pipeline and Hazardous
Materials Safety
Administration**

November 05, 2024

1200 New Jersey Avenue, SE
Washington, DC 20590

DOT-SP 21425
(FIRST REVISION)

EXPIRATION DATE: 2028-09-30

(FOR RENEWAL, SEE 49 CFR 107.109)

1. GRANTEE: Lucid USA, Inc.
Newark, CA
2. PURPOSE AND LIMITATION:
 - a. This special permit authorizes the transportation in commerce of lithium ion batteries exceeding 35 kg via 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 A99, as an approval under 49 CFR 173.185(h), 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.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 172.101 Hazardous Materials Table Column (9B) in that the net weight per package may not exceed 35 kg; and 173.185(b)(6) in that UN 50D large packagings are not authorized packagings for air transport, except as specified herein.

Tracking Number: 2024094092

5. BASIS: This special permit is based on the application of Lucid USA, Inc. dated August 31, 2024, 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. PACKAGING:

- (1) Inner packaging: Each battery must be placed in a non-metallic, electrically non-conductive inner packaging of adequate strength that completely encloses the battery.
- (2) Outer packaging: Each inner packaging must be packaged in a UN specification 50D wooden box that meets the Packing Group I performance level. The UN 50D wooden box serves as an outer packaging.
- (3) Not more than one battery may be packaged within an outer packaging.
- (4) The net and gross mass of a package may not exceed 688 kg (1,517 pounds) and 990 kg (2,183 pounds), respectively.
- (5) The packaging must comply with the requirements in Packing Instruction 974 of the Supplement to the ICAO TI.

b. OPERATIONAL CONTROLS:

- (1) The batteries authorized to be offered for transportation under the terms of this special permit are identified below and must conform to the supplemental data dated September 23, 2022 and on file with the Office of Hazardous Materials Safety (OHMS):

| Battery Configuration | Cell Model Name | Nominal Watt-Hour Rating |
|-----------------------|-----------------|--------------------------|
| 180S30P | INR21700M48 | 94 kWh |
| 220S30P | INR21700M48 | 115 kWh |
| 220S30P | INR21700-50G | 120 kWh |

- (2) The terminals of the cells and batteries must be protected to prevent against external short circuits.
- (3) The batteries must be packaged such that terminals are not subjected to the weight of materials that may be superimposed during transportation.
- (4) The cells and battery modules connected in parallel must be equipped with an effective means to prevent dangerous reverse current flow.
- (5) The state of charge for lithium ion batteries must be not more than 30% when offered for air transportation.
- (6) A battery must be equipped with a battery management system that has been verified as preventing overcharge, short circuits, and over discharge between the modules.

c. **TESTING REQUIREMENTS:** The batteries must consist of cells that have passed all required tests in accordance with Section 38.3 of the UN Manual of Tests and Criteria, 6th Revised Edition.

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 21425."

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 or its contents 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.
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.:

A handwritten signature in blue ink, appearing to read "W. Schoonover", is written over a light blue circular stamp.

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: BB