



U.S. Department
of Transportation

**Pipeline and Hazardous
Materials Safety
Administration**

May 06, 2022

1200 New Jersey Avenue, SE
Washington, DC 20590

DOT-SP 21346

EXPIRATION DATE: 2024-04-30

(FOR RENEWAL, SEE 49 CFR 107.109)

1. GRANTEE: Porsche Motorsport
Weissach, Germany

US AGENT: Boston Impact LLC
Lexington, MA

2. PURPOSE AND LIMITATION:

a. This special permit authorizes the transportation in commerce of prototype lithium batteries which exceed the allowable weight limit (35 kg) and vehicles containing those batteries aboard 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 paragraph 2) of "Batteries" in Packing Instruction 950 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.

Tracking Number: 2022034015

4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 172.101 Hazardous Materials Table Column (9B) in that a lithium ion battery may not exceed 35 kg and § 173.185(a)(1) in that prototype lithium batteries have not passed the criteria in Part III, subsection 38.3 of the UN Manual of Tests and Criteria, except as specified herein.
5. BASIS: This special permit is based on the application of Porsche Motorsport dated February 28, 2022, submitted in accordance with § 107.105 and the public proceeding thereon.
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
Vehicle, flammable liquid powered* <i>or</i> Vehicle, fuel cell, flammable liquid powered*	9	UN3166	N/A

*Only prototype lithium ion batteries, including when contained in vehicles, may be offered for transportation under the terms of this special permit. Each different cell and battery type must comply with all the conditions of this special permit prior to being offered for transportation.

7. SAFETY CONTROL MEASURES:

a. OPERATIONAL CONTROLS:

(1) Only prototype lithium ion battery assemblies identified as LMDH 2021 Battery Assemblies may be offered for transportation individually or installed in hybrid vehicles (UN3166 per Special Provision A214 of the ICAO TI) under the terms of this special permit. Each different battery type must comply with all the conditions of this special permit prior to being offered for transportation.

(2) The battery assemblies, each having a nominal watt-hour rating of 1.4 kWh, are comprised of 180 Saft cells (Name SL2A).

(3) The state of charge for lithium ion battery assemblies must not be more than 30% when offered for transportation.

(4) Each battery assembly must be equipped with a battery management system capable of preventing external short-circuiting and overcharge as described in Porsche Motorsport's February 28, 2022 application, which is on file with the Office of Hazardous Materials Safety (OHMS).

(5) The battery assemblies must be equipped with an effective means of preventing dangerous reverse current flow.

(6) The packaging and shipping of the battery assemblies must be performed by hazardous material trained Porsche Motorsport employees.

b. TESTING REQUIREMENTS:

(1) Each Saft cell within the battery assemblies must be of a type tested in accordance with the UN Manual of Tests and Criteria, 6th Revised Edition.

(2) Each battery assembly need not be of a type tested in accordance with the UN Manual of Tests and Criteria, 6th Revised Edition but must have passed the vibration test, shock test, external short-circuit test, and overcharge test all similar to the corresponding UN required tests as described in Porsche Motorsport's February 28, 2022 application, which is on file with the OHMS.

c. PACKAGING REQUIREMENTS:

(1) Each battery assembly must have a strong, impact-resistant carbon composite outer casing.

(2) Inner packaging: Each battery assembly is individually placed in a non-metallic inner packaging.

(3) Outer packaging: Each inner packaging must be surrounded by cushioning material that is non-combustible, and non-conductive and then placed in an outer packaging that is a UN-Standard metal, plastic, or wooden box that meets the Packing Group I performance level (UN3480 only).

(4) The net and gross weights of a package may not exceed 38 kg (84 pounds) and 100 kg (220 pounds), respectively.

(5) Only one battery assembly may be packed within each outer packaging or per vehicle.

(6) The prototype battery assemblies within the vehicle must be securely installed and protected against damage and short-circuiting.

(7) All fuel must be drained from vehicle tanks and lines.

d. MARKING: Each package must be marked with the special permit number DOT-SP 21346 in accordance with § 172.301(c). When the battery assembly is installed in a vehicle, the requirements of § 172.301(c) do not apply.

8. SPECIAL PROVISIONS:

a. Under the terms of this special permit, the grantee may only offer hazardous materials (i.e., the grantee is not authorized as a carrier).

b. 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, the HMR, and the ICAO TI.

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

d. 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, and the State of the Operator.

e. The grantee must maintain a record of all activity conducted under the authority granted in this special permit and upon request make this information available to DOT representatives or enforcement officials. The record must contain a listing and number of shipments made to include:

(1) Dates of shipment; and

(2) Description of each type of shipment.

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: Steve H