1. **GRANTEE:** (See individual authorization letter)

2. **PURPOSE AND LIMITATION:**
   a. This special permit authorizes the transportation in commerce of prototype and low production lithium ion batteries and battery-powered vehicles aboard cargo-vessel or cargo-only aircraft. This special permit provides no relief from the Hazardous Materials Regulations (HMR), the International Maritime Dangerous Goods (IMDG) Code, 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. Unless otherwise stated herein, this special permit consists of the special permit authorization letter issued to the grantee together with this document.
   
   d. This special permit serves as an “exemption” as defined in 7.9.1 of the IMDG Code, an approval under § 173.185(b)(5), Special Provision A88 and State Variation US 3 of the ICAO TI, and paragraph 2) of “Batteries” of Packing Instruction 952 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, the IMDG Code, and the ICAO TI.

4. **REGULATIONS FROM WHICH EXEMPTED:** 49 CFR § 172.101 Hazardous Materials Table Column (9B) in that the net weight of each battery exceeds 35 kg; § 173.185(a)(1) in that low production and prototype batteries have not passed the criteria in Part III, subsection 38.3 of the UN Manual of Tests and Criteria; and Paragraph (1) of Packing Instruction P910 of the IMDG Code in that each battery is not packaged in UN Standard packaging, as provided herein.
5. **BASIS:** This special permit is based on the application of Rivian Automotive, LLC dated June 2, 2021 submitted in accordance with § 107.105 and the public proceeding thereon.

6. **HAZARDOUS MATERIALS (49 CFR 172.101):**

<table>
<thead>
<tr>
<th>Hazardous Materials Description</th>
<th>Hazard Class/Division</th>
<th>Identification Number</th>
<th>Packing Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery-powered vehicle*</td>
<td>9</td>
<td>UN3171</td>
<td>N/A</td>
</tr>
<tr>
<td>Lithium ion batteries* including lithium ion polymer batteries</td>
<td>9</td>
<td>UN3480</td>
<td>N/A</td>
</tr>
</tbody>
</table>

*Only prototype and low production lithium ion batteries and battery-powered vehicles containing prototype and low production lithium ion batteries 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 cells or batteries annually of a particular type.) Each different 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) The maximum rated energy capacity of the battery pack comprised of Samsung SDI cells may not exceed 230 kWh.

(2) Each battery pack must be comprised of a string of up to 15 modules.

(3) Each battery pack must be fitted with a battery management system that has been verified as preventing overcharge, short circuits and over discharge between the strings.

(4) The battery pack must be equipped with a coolant manifold.

(5) The state of charge for each lithium ion battery pack (UN3840 only) may not exceed 30% when offered for transportation.

(6) The battery packs must be equipped with an effective means of preventing dangerous reverse current flow for the strings or cells that are connected in parallel.

b. **TESTING REQUIREMENTS:** Cells must be of a type that have been successfully tested in accordance with Part III, Section 38.3, of the UN Manual of Tests and Criteria, Sixth Revised Edition.
c. **PACKAGING:**

   (1) Each battery pack must have a mass of 12 kg or greater and have a strong, impact-resistant outer casing.

   (2) Each battery pack (UN3480 only) must be packaged within a strong plywood crate. Each battery pack must be secured within the plywood crate with eight lag bolts. Not more than one battery pack may be packaged within a plywood crate.

   (3) Each battery pack within a vehicle must be securely fastened in the battery holder with sufficient numbers of high-tensile bolts. Each vehicle may contain not more than one battery pack.

   (4) The net weight of the battery pack within a single package may exceed 35 kg (77 pounds) but may not exceed 1,600 kg (3,527 pounds).

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 20898.

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, the HMR, the IMDG Code, and the ICAO TI.

   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, and destination and the State of the Operator.

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

      (1) Dates of shipment; and

      (2) Description of each type of shipment.
(3) A description of each cell and battery pack type and types of tests conducted and test results prior to offering for transportation.

9. **MODES OF TRANSPORTATION AUTHORIZED:** Cargo-only aircraft and cargo vessel.

10. **MODAL REQUIREMENTS:** A current copy of this special permit must be carried aboard each cargo vessel or 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.:

[Signature]

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
Photo reproductions and legible reductions of this special permit are permitted. Any alteration of
this special permit is prohibited.

PO: SH/TG