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

2. **PURPOSE AND LIMITATION:**
   
a. This special permit authorizes the transportation in commerce of certain lithium ion battery modules and battery assemblies exceeding 35 kg when transported 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. 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 approval under Special Provision A99 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.

4. **REGULATIONS FROM WHICH EXEMPTED:** 49 CFR § 172.101 Hazardous Materials Table Column (9B) in that a battery may not exceed 35 kg, except as specified herein.
5. **BASIS**: This special permit is based on the application of Mercedes-Benz AG dated December 16, 2021, submitted in accordance with § 107.105 and the public proceeding thereon.

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

<table>
<thead>
<tr>
<th>Proper Shipping Name</th>
<th>Hazard Class/Division</th>
<th>Identification Number</th>
<th>Packing Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lithium ion batteries <em>including lithium ion polymer batteries</em></td>
<td>9</td>
<td>UN3480</td>
<td>N/A</td>
</tr>
</tbody>
</table>

7. **SAFETY CONTROL MEASURES:**

   a. **SAFETY CONTROLS:**

      (1) Authorized battery assemblies identified as EB401, EB402, EB406, EB421, EB422, EB426, PB310, PB311, and PB340 have the watt-hour ratings and the net weights as described in the December 16, 2021 Mercedes-Benz AG’s application and which is on file with the Office of Hazardous Materials Safety (OHMS).

      (2) Authorized battery modules identified as 1P18S TypeA, 1P18S TypeB, and PCM066149-A01 have the watt-hour ratings and the net weights as described in the December 16, 2021 Mercedes-Benz AG’s application and which is on file with the OHMS.

      (3) Cells, battery modules and battery assemblies must be protected against short-circuiting.

      (4) All of the battery modules and the battery assemblies must be offered for air transportation at a state of charge not greater than 30%.

      (5) Battery modules or assemblies with cells connected in parallel must be equipped with an effective means to prevent dangerous reverse current flow.

      (6) The battery modules and assemblies must be secured to prevent inadvertent movement and the terminals may not support the weight of other superimposed elements.
(7) The battery assembly must be equipped with a battery management system that has been verified as preventing overcharge, short circuits, and over discharge between the modules in the assembly.

b. TESTING REQUIREMENTS:

(1) Each cell within the battery assemblies and battery modules must be of a type that has passed the required tests in accordance with the UN Manual of Tests and Criteria, 6th Revised Edition as described in the March 16, 2022 Mercedes-Benz AG’s supplemental submission and which is on file with the Office of Hazardous Materials Safety (OHMS).

(2) Each battery assembly and battery module must have passed the required tests in accordance with the UN Manual of Tests and Criteria, 6th Revised Edition. (The PB340 battery assemblies must have passed 7th Revised Edition.).

c. PACKAGING: The battery assemblies and modules must be packaged as follows:

(1) Inner packagings: The battery assemblies and modules must be capped on terminals to prevent short-circuiting and placed into a non-metallic poly bag which then must be surrounded on all sides with noncombustible, nonconductive cushioning material.

(2) Outer Packagings: The inner packagings must be placed in UN-specification 4G packagings that meets the Packing Group II performance level. The outer packagings must be placed on a disposal pallet and strapped four times with plastics strapping.

(3) Packagings must comply with the requirements in Packing Instruction 974 of the Supplement to the ICAO TI. Additionally, waste lithium modules and battery assemblies and lithium modules and battery assemblies being shipped for recycling or disposal are forbidden from air transport, and lithium ion modules and battery assemblies must not be packed in the same outer packaging with substances and articles of Class 1 (explosives) other than Division 1.4S, Division 2.1 (flammable gases), Class 3 (flammable liquids), Division 4.1 (flammable solids), or Division 5.1 (oxidizers).

(4) The maximum net weight of the battery assembly or module within a package must not exceed 800 kg (1764 pounds).

(5) Only one battery assembly or module may be packed within a 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 21318.

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, and destination and the State of the Operator.

e. The special permit holder must maintain a record of all activity conducted under the authority granted in this special permit. The record must contain a complete listing and number of shipments made to include and upon request make this information available to a DOT representative or an enforcement official. 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:
All terms and conditions prescribed in this special permit and the Hazardous Materials Regulations, 49 CFR Parts 171-180.

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.

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

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/ae