



U.S. Department
of Transportation

**Pipeline and Hazardous
Materials Safety
Administration**

April 17, 2025

1200 New Jersey Avenue, SE
Washington, DC 20590

DOT-SP 21874

EXPIRATION DATE: 2027-02-28

(FOR RENEWAL, SEE 49 CFR 107.109)

1. GRANTEE: Kary Environmental Services, Inc.
Mesa, AZ
2. PURPOSE AND LIMITATION:
 - a. This special permit authorizes the transportation in commerce of damaged, defective, and recalled lithium ion batteries (DDR's) contained in vehicles in alternative packaging. This special permit provides no relief from the Hazardous Materials Regulations (HMR) 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.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 173.185(f)(1) through (3) in that alternative packaging is authorized as provided herein.
5. BASIS: This special permit is based on the application of Kary Environmental Services, Inc. dated October 8, 2024, submitted in accordance with § 107.105 and the public proceeding thereon.

Tracking Number: 2024104324

6. HAZARDOUS MATERIALS (49 CFR 172.101):

Hazardous Materials Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Battery-powered vehicle*	9	UN3171	N/A
Vehicle, flammable liquid powered*	9	UN3166	N/A
Vehicle, fuel cell, flammable gas powered*	9	UN3166	N/A

*This Special Permit applies to DDRs contained in the lithium ion battery powered electric vehicles; hybrid vehicles where lithium ion batteries and fuel cells or lithium ion batteries and internal combustion engines powered the vehicles; or alternate fuel vehicles containing lithium ion batteries.

7. SAFETY CONTROL MEASURES:

a. PACKAGING: The DDRs in the vehicle must be loaded into a 40-cubic yard roll-off steel container weighing about 6,100 pounds (2,767 kg) as described in the February 6, 2025, supplemental information and which is on file with the Office of Hazardous Material Safety (OHMS) and be packaged follows:

- (1) Each container must have in the bottom of the container at least six (6) inches of fire suppressant (sand and water mixture in the proportion as described in the March 4, 2025 information) which is noncombustible and absorbent with heat and fire suppression properties.
- (2) Each container must be filled with the fire suppressant where the fire suppressant surrounds all sides of each vehicle containing the DDRs, creating a barrier of fire suppressant between the vehicle and the container by separating them by at least 2 inches on all sides as described in the Emergency Response Plan dated March 25, 2025, on file with the OHMS.
- (3) The container must be properly covered ensuring that no particles will be entrained into the air during transportation.
- (4) Each 40-cubic yard container package containing the vehicle containing DDRs, and the fire suppressant is limited to not more than 21,400 pounds (9,707 kg) gross weight. Kary Environmental Services, Inc. must oversee the operations including meeting this limit.

- (5) Each container may contain not more than one vehicle containing the DDRs.
- (6) Each container serves as the outer packaging and must be leak-proof to prevent the potential release of electrolyte.
- (7) The roll-off container may be winched on a transport vehicle or loaded onto a flatbed trailer with the container securely fastened in the container holder of the trailer.

b. OPERATIONAL CONTROLS:

- (1) The confined spaces in the containers transporting vehicles containing DDRs must have adequate ventilation to prevent accumulation of gases possibly vented from the DDRs.
- (2) In cases where stranded energy in the batteries is suspected or apparent: Each container containing the DDRs and the fire suppressant must be monitored for a period of at least seven (7) hours for any temperature rise, any sign of rapid disassembly, any dangerous reaction, production of a flame, a dangerous evolution of heat, or a dangerous emission of toxic, corrosive or flammable gases or vapors prior to transportation. In addition, no transportation is allowed until there is no evidence of gas venting, leakage, heat, smoke, fire, or other adverse reaction.
- (3) The dedicated containers transporting the vehicles containing DDRs must be directly driven by HazMat trained drivers from the point of collection to destination facilities.
- (4) The drivers must be briefed on the safety issues associated with the DDRs including the Emergency Response Plan dated March 2025 which is on file with the OHMS.
- (5) The flammable gas monitoring system must be in operation to confirm that no off-gas leaking is present before and after loading and intermittently during the transportation of the vehicle containing DDRs.
- (6) In cases where stranded energy is not left in the batteries: The thermal/infrared imaging must be used to detect any abnormality in the battery before transportation. The package may not be moved sooner than 30 minutes after monitoring begins.

c. MARKING: Each package covered under the terms of this special permit must be durably and legibly placarded, marked and displayed on a background of contrasting color with the following:

- (1) “DOT-SP 21874”.
- (2) The words: “Damaged/defective lithium ion battery” in letters at least 12 mm (0.5 inch) in height.
- (3) The LITHIUM BATTERY label specified in and conforming to 49 CFR 172.447.
- (4) Emergency response information including the emergency response telephone number in case of damage to the packaging or contents.

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: Motor vehicle.

10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each motor vehicle used to transport packages covered by this special permit.

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: SH/TG