

June 21, 2017



U.S. Department
of Transportation

East Building, PHH-30
1200 New Jersey Avenue S.E.
Washington, D.C. 20590

**Pipeline and Hazardous
Materials Safety Administration**

DOT-SP 16450
(FIRST REVISION)

EXPIRATION DATE: 2021-04-30

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: United States Dept. of Energy
Washington, DC
2. PURPOSE AND LIMITATION:
 - a. This special permit authorizes the one-way transportation in commerce of stainless steel encased lithium hydride shields in an alternative packaging for disposal. 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 § 173.242 in that alternative packagings are authorized, as specified herein.
5. BASIS: This special permit is based on the application of U.S. Department of Energy dated May 15, 2017 submitted in accordance with § 107.109.

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6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous Materials Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Lithium hydride*	4.3	UN1414	I

*Note: Only stainless steel encased lithium hydride shields are authorized.

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Packaging prescribed is one (1) non-DOT specification Intermediate Bulk Container (IBC) fabricated from carbon steel that is constructed in accordance with a UN 11A container, except that the volumetric capacity of 147 cubic feet exceeds the § 178.700(c)(1) limit of 106 cubic feet. The package has a gross weight of approximately 1,420 pounds and has the following dimensions: a width of 91.250 inches; a length of 89.750 inches; a height of 43.875 inches. The IBC conform to the applicant's drawings on file with the Office of Hazardous Materials Safety Approvals and Permits Division.

b. TESTING - The design type must meet the testing requirements specified in § 178.803 for metal IBCs. Specifically, the design type must meet the requirements of the vibration test, bottom lift test, and drop test.

c. OPERATIONAL CONTROLS -

(1) Transportation is only authorized one-way for disposal. Only one package is authorized to be transported for disposal under the terms of this special permit.

(2) The package must be transported in a fully enclosed transport vehicle.

(3) The package must be securely blocked and braced during transportation in conformance with the requirements of 49 CFR §§ 393.100 - 393.106.

(4) U.S. Department of Energy personnel must monitor the progress of the shipment by cellular telephone.

d. MARKING - The outside of the package must be marked "DOT-SP 16450".

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this special permit who receives the 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 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.

c. Documentation verifying the gasket material installed on the packaging is not expired at the time of shipment must be kept with all copies of this special permit.

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 the package 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.

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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-30, 1200 New Jersey Avenue, Southeast, Washington, D.C. 20590.

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Copies of this special permit may be obtained by accessing the Hazardous Materials Safety Homepage at http://hazmat.dot.gov/sp_app/special_permits/spec_perm_index.htm. Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PO: Andrew Eckenrode