U.S. Department
of Transportation
**Research and
Special Programs
Administration**

400 Seventh St., S.W.
Washington, D.C. 20590

MAY 3 0 2003

DOT-E 13048
(FIRST REVISION)

| EXPIRATION DATE: July 31, 2004 |
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(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: U.S. Department of Energy
Washington, D.C.

(See Appendix A to this document for a list of additional grantees)

2. PURPOSE AND LIMITATION:

a. This exemption authorizes the one-way, one-time transportation in commerce of sodium in a non-DOT specification containment system for waste disposal. This exemption provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.

b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce.

3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.

4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.211(a) in that the use of a non-DOT specification packaging system is not authorized, except as specified herein.

5. BASIS: This exemption is based on the applications of the U.S. Department of Energy (DOE) dated May 29, 2002 and January 21, 2003, 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** | **Identi- fication Number** | **Packing Group** |
| Sodium | 4.3 | UN1428 | I |

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Packaging prescribed is a non-DOT specification stainless steel containment system known as a cold trap manufactured by Gulf United Nuclear Fuels Corporation in 1972. It consists of a cylinder approximately 154.3 centimeters (60 inches) in diameter and 199.9 centimeters (78.7 inches) in height with two (2) stainless steel one inch pipe penetrations in one head of the cold trap. Both heads and cylinder shell are made of ASME SA240 Type 304 stainless steel, nominally 9.53 millimeters (0.375 inches) thick. The minimum wall thickness for both heads and shell is 8.38 millimeters (0.33 inches). Details of the containment system are described in the application on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA).

b. OPERATIONAL CONTROLS -

(1) The two stainless steel 1-inch pipe penetrations must be sealed with welded stainless steel caps.

(2) The cold trap must be placed horizontally and secured onto a wooden pallet with wood forms and bracing used to provide additional protection for the piping protrusions.

(3) Additional sodium waste, packaged in drums, may be shipped on the same vehicle. No other hazardous materials may be loaded on the transport vehicle.

(4) The cold trap may only be transported from Richland, Washington to Idaho Falls, Idaho with no intermediate pick-ups or deliveries.

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this exemption who receives a package covered by this exemption 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 exemption and the HMR.

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

c. The cold trap must be plainly and durably marked "DOT-E 13048" as specified in §§ 172.302(b) and (c).

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle.

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

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

- All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when this exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incident involving the package and shipments made under the terms of this exemption.

Issued in Washington, D.C.:

Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety

MAY 3 0 2003
(DATE)

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590. Attention: DHM-31.

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

PO: PTO/am