



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

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

DOT-E 3549  
(THIRTEENTH REVISION)

**JUL 17 2003**

**EXPIRATION DATE: June 30, 2005**

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: U.S. Department of Energy (DOE)  
National Nuclear Security Administration  
Washington, D.C.

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

2. PURPOSE AND LIMITATION:

- a. This exemption authorizes the transportation in commerce of not more than 250 grams (0.55 pounds) of certain "forbidden" dry explosive materials classed as Division 1.1 explosives in the special packaging prescribed herein. 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 §§ 172.101 and 173.54(j) in that the explosive substances covered in this exemption, when shipped without a wetting or desensitizing agent, are "forbidden", except as specified herein; §§ 173.56(b) and 173.57(a) in that the explosive substances covered in this exemption are required to be approved and tested in accordance with the UN explosive tests to determine if these substances are "forbidden", except as specified herein.

5. BASIS: This exemption is based on the application of the U.S. Department of Energy (DOE) dated July 3, 2003, submitted in accordance with § 107.109.

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

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Hazardous Material Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Substances, explosive, n.o.s. (Cyclotetramethylene tetranitramine-dry)	1.1D	UN0475	II
Substances, explosive, n.o.s. (Cyclotrimethylenetrinatramine-dry)	1.1D	UN0475	II
Substances, explosive, n.o.s. (Pentaerythrite tetranitrate-dry)	1.1A	UN0473	II

7. SAFETY CONTROL MEASURES:

The following packaging method is assigned:

Inner Packaging: Bags, static-shielding plastic, not less than 0.004 inches thick, double-sealed with a metal strip tie and waterproof plastic tape, each containing not more than 250 grams (0.55 pounds) of "forbidden" dry explosive substance. A desiccant container and a moisture indicator may be included inside the bag with the dry explosive substance.

1st Intermediate Packaging: Bag, plastic not less than 0.0085 inches thick, sealed with a metal strip tie and waterproof plastic tape; or container, plastic, not less than 0.033 inches thick with a threaded plastic cap sealed with waterproof plastic tape, each containing one inner packaging.

2nd Intermediate Packaging: Drum, coated or plastic-lined steel with sealing lid, each containing one "1st intermediate packaging" with the void space in the drum filled with water or a non-freezing water-alcohol mixture so

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that the drum is not completely liquid full at a temperature of 55 degrees Centigrade (131 degrees Fahrenheit) or less.

3rd Intermediate Packaging: Drum, steel with sealing lid, each containing one "2nd intermediate packaging" which is sufficiently cushioned with foamed plastic padding or sheeting to prevent movement during transport.

Outer Packaging: Specification 4D plywood box, each containing one "3rd intermediate packaging" and sufficiently cushioned with non-combustible cushioning material to prevent movement during transport.

8. SPECIAL PROVISIONS:

a. This exemption is only authorized for US Government purposes.

b. The outer packaging must be legibly and durably marked with the exemption number, "DOT-E 3549".

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, and Department of Energy contract cargo aircraft only.

10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each motor vehicle and Department of Energy contract cargo aircraft only. The shipper must furnish a current copy of this exemption 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 exemption 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 exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.

o Registration required by § 107.601 et seq., when applicable.

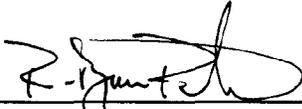
Each "Hazmat employee", as defined in § 171.8 who performs a

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

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving fire, explosion or 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 incidents involving the package and shipments made under the terms of this exemption.

Issued in Washington, D.C.:



*fr* Robert A. McGuire  
Associate Administrator for  
Hazardous Materials Safety

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(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: SCW/sln

OCT 16 2003

The following are hereby granted party status to this exemption based on their application(s) submitted in accordance with § 107.107 or § 107.109, as appropriate:

Company Name City/State	Application Date	Issue Date	Expiration Date
BWXT Pantex, LLC Amarillo, TX	7/9/2003	7/17/2003	6/30/2005
Los Alamos National Laboratory Los Alamos, NM	7/14/2003	7/29/2003	6/30/2005
UT-Battelle, LLC Oak Ridge, TN	9/30/2003	OCT 16 2003	6/30/2005



Robert A. McGilve  
Associate Administrator for  
Hazardous Materials Safety

