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

JUL 3 2000

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

DOT-E 3549
(ELEVENTH REVISION)

EXPIRATION DATE: November 30, 2001

(FOR RENEWAL, SEE 49 CFR § 107.109)

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

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

2. PURPOSE AND LIMITATION: This exemption authorizes the transportation in commerce of certain forbidden explosives, up to 250 grams, as Class 1 explosives in special non-DOT specification inside packaging and outside packaging, overpacked in a UN4D plywood box. This exemption provides no relief from any Hazardous Materials Regulation (HMR) other than as specifically stated herein.

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

4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 172.101, 173.54, 173.56 and 173.62 .

5. BASIS: This exemption is based on the application of the U.S. Department of Energy (DOE) dated February 15, 2000, submitted in accordance with § 107.109.

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

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

7. PACKAGING AND SAFETY CONTROL MEASURES:

a. PACKAGING - Packaging prescribed is for quantities not to exceed 250 grams, in static shielding bags of 0.004 inch minimum thickness or a polyethylene bottle with walls 0.033 inches thick, with a waterproof lid. Each bag must be sealed with a metal strip and waterproof tape, and then inserted in a polypropylene container. Desiccant and a moisture indicator must be included with the first bag when placed in the second container. If a polyethylene bottle is used, a double-seal, watertight lid with a wrapping of waterproof tape must be used. The assembled units must be placed in a reusable steel drum, (1A2) 8.5 inches deep by 6.5 inches in diameter (Mil Spec 24347-5) equipped with a liquid-tight, gasketed, bolted steel ring closure; or in small metal (aluminum) crimped-sealed containers, 3.625 inches diameter by 2.5 inches deep. Desiccant and a moisture indicator must be included with the container(s) when placed in the second polypropylene container (5 inches deep by 4.38 inches in diameter). The assembled units must be placed in a reusable steel drum, (1A2) 4.5 inches deep by 6.5 inches in diameter (Mil Spec 24347-3) and/or 7 inches deep by 6.5 inches in diameter (Mil Spec 24347-4), equipped with a liquid-tight, gasketed, bolted steel ring closure. Additionally, the void in this drum will be filled with water per § 173.60. If shipments are to be made during a time when freezing weather may be anticipated, an antifreeze must be used in such proportions that freezing of the water, included with the shipment, will not occur while in transit.

The assembly must then be placed in a 4-gallon capacity, 22 gauge reusable steel drum (1A2) (Mil Spec 27684-12). Voids in this drum will be filled with polyurethane foam pads. This drum must also be gasketed and fitted with a strong bolt ring-type closure.

b. The completed assembly(ies) must further be placed in a UN4D plywood box. The voids in this box must be filled with noncombustible cushioning material.

8. SPECIAL PROVISIONS: None as a requirement of this exemption.

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

10. MODAL REQUIREMENTS: None as a requirement of 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 the 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 the 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 incidents involving the package and shipments made under the terms of this exemption.

Issued at Washington, D.C.:

Robert A. McGuire
Acting Associate Administrator for
Hazardous Materials Safety

JUL 3 2000
(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.

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

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JAN 25 2001

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
Bechtel Jacobs Company, LLC Oak Ridge, TN	3/8/2000	7/3/2000	11/30/2001
BWXT Pantex, LLC Amarillo, TX	12/20/2000	JAN 25 2001	11/30/2001
BWXT Y-12 LLC Oak Ridge, TN	9/26/2000	10/13/2000	11/30/2001
Lawrence Livermore National Laboratory Livermore, CA	11/5/1999	12/22/1999	11/30/2001
Los Alamos National Laboratory Los Alamos, NM	9/1/2000 & 9/20/2000	10/3/2000	11/30/2001
Mason & Hanger Corp. Amarillo, TX	6/16/1998	12/22/1999	11/30/2001
WESKEM, LLC Oak Ridge, TN	2/14/2000	3/9/2000	11/30/2001
UT-Battelle, LLC Oak Ridge, TN	3/7/2000	7/3/2000	11/30/2001

for Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety