

October 06, 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 16490
(THIRD REVISION)

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: (See Individual Authorization Letter)
2. PURPOSE AND LIMITATION:
 - a. This special permit authorizes the transportation in commerce of certain explosives by vessel in an alternative stowage configuration. 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. Unless otherwise stated herein, this special permit consists of the special permit authorization letter issued to the grantee together with this document.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 176.63 and 176.83 in that alternative stowage and segregation are permitted; 176.116(e) in that explosive materials must not be stowed directly above machinery spaces; 176.120 in that lightning protection is required; 176.137(a)(7) in that portable magazines must be marked "explosives - Handle carefully - keep lights and fire away"; 176.138(b) in that explosive materials must be stowed 6 m (20 feet) from sources of heat and ignition and 12 m (39 feet) from accommodation spaces while on deck; 176.144(e) in that explosive materials in different compatibility groups must be separated when stowed on deck; 176.164(e) in that two sets of self-contained breathing apparatus are required and no

October 06, 2017

fire pump is required with small crews of 4-6 sailors; and 176.178(b) in that towing wires must be secured to the mooring bits.

5. BASIS: This special permit is based on the application of DEMEX International, Inc. dated April 5, 2017, 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	Identification Number	Packing Group
Articles, explosive, n.o.s. (<i>shock tube</i>)	1.4S	UN0349	N/A
Boosters, without detonator	1.1D	UN0042	N/A
Charges, explosive, commercial <i>without detonator</i>	1.1D	UN0442	N/A
Charges, shaped, flexible, linear	1.1D	UN0288	N/A
Cord, detonating, flexible	1.4D	UN0289	N/A
Cord, detonating, flexible	1.1D	UN0065	N/A
Cyclotrimethylenetrinitramine, desensitized or Cyclonite, desensitized or Hexogen, desensitized or RDX, desensitized	1.1D	UN0483	N/A
Cyclotrimethylenetrinitramine, wetted or Cyclonite, wetted or Hexogen, wetted or RDX, wetted <i>with not less than 15 percent water, by mass</i>	1.1D	UN0072	N/A
Detonator assemblies, non- electric, <i>for blasting</i>	1.4B	UN0361	N/A

October 06, 2017

Hazardous Materials Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Detonator, assemblies, non-electric, <i>for blasting</i>	1.4S	UN0500	N/A
Detonators, electric, <i>for blasting</i>	1.4B	UN0255	N/A
Detonators, electric, <i>for blasting</i>	1.4S	UN0456	N/A
Detonators, non-electric, <i>for blasting</i>	1.4B	UN0267	N/A
Detonators, non-electric, <i>for blasting</i>	1.4S	UN0455	N/A
Hexolite, or Hexotol dry or wetted with less than 15 percent water, by mass	1.1D	UN0118	N/A

7. SAFETY CONTROL MEASURES:

a. Packaging - Prescribed packaging is as authorized in the HMR.

b. Operational Controls -

(1) Division 1.4B and 1.4S detonators must be stowed in a container that meets the specifications of Institute of Makers of Explosives (IME) Safety Library Publication No. 22. The quantities of 1.4B and 1.4S detonators within the container must not exceed quantities authorized in Table 2 of IME Safety Library Publication No. 22.

(2) All other explosives must be stowed and transported as specified in the HMR. If the vessel to be used is not equipped with a fixed gas fire-extinguishing system and lightning protection, all

October 06, 2017

other explosives must be stowed in a separate container from b.1. that meets the specifications of IME Safety Library Publication No. 22.

(3) All containers of explosives must be stowed on deck away from possible sources of heat and ignition and accommodation spaces to the maximum practicable distances.

(4) The vessel must have a steel deck that separates machinery spaces from the explosives unless authorized by the Captain of the Port (COTP).

(5) An aluminum vessel may be used in lieu of a steel vessel with the following additional safety requirements.

(i) The vessel must be certificated under 46 CFR Subchapter T (post-1996), including the installation of a fixed fire extinguishing and fire detection system to protect the engine room.

(ii) The explosives must be stowed in a steel container(s) with a minimum wall thickness of .1046 inches and maximum dimensions of 8'x8'x12', the magazine must be lined with .5 inch drywall followed by .5 inch plywood. The magazines shall be placed on the deck with the feet oriented fore-aft.

(iii) Maximum quantity of explosives on the vessel must not to exceed 6,000 pounds net explosive weight or relevant port maximum, whichever is lower.

(iv) Each vessel must be provided with a portable deck flooding system with a minimum capacity of 0.1 GPM per square foot of engine overhead deck area. The system must be powered by a gasoline engine driven water pump. System operation, deck coverage and crew competence must be demonstrated prior to each loadout.

(v) Training must be provided to the crew on the procedures to be followed in case of an engine room fire, including CO₂ system activation, deployment of the portable deck flooding system and evacuation via inflatable buoyant apparatus.

October 06, 2017

(6) All shipments under the terms of this special permit must be accompanied by a responsible person that must be in constant attendance of the explosives. This responsible person must remain on the vessel during carriage and assist the master in the event of an emergency.

(7) A safety briefing must be given to the crew prior to loadout. Training must meet the requirements of 49 CFR 172 Subpart H.

8. SPECIAL PROVISIONS: 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: Cargo vessel.
10. MODAL REQUIREMENTS:
 - a. This special permit only applies to offshore supply vessels, work boats and crew boats operating in the Gulf of Mexico.
 - b. A current copy of this special permit must be carried aboard each vessel 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.

October 06, 2017

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.

October 06, 2017

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: Richard Tarr/SG