



U.S. Department
of Transportation

Research and
Special Programs
Administration

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

JUN 17 2004

DOT-E 12211
(SIXTH REVISION)

EXPIRATION DATE: February 28, 2006

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: BJ Services Company USA
Tomball, TX

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

2. PURPOSE AND LIMITATION:

a. This exemption authorizes the transportation in commerce of liquid nitrogen, cryogenic liquid, in non-DOT specification insulated portable tanks by cargo vessel for delivery to oil and gas production facilities within the jurisdiction of the United States of America. 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 § 173.320(a) in that the packagings prescribed in this exemption are authorized for transportation by cargo vessel.
5. BASIS: This exemption is based on the application of BJ Services Company USA, dated March 30, 2004, submitted in accordance with § 107.109.

6. HAZARDOUS MATERIALS (49 CFR § 172.101):**JUN 17 2004**

Proper Shipping Name/ Hazardous Materials Description	Hazard Class/ Division	Identi- fication Number	Packing Group
Nitrogen, refrigerated liquid <i>cryogenic liquid</i>	2.2	UN1977	N/A

7. SAFETY CONTROL MEASURES:a. PACKAGING -

- (1) Packaging prescribed is a non-DOT specification insulated portable tank designed and constructed in accordance with the DOT specification MC-338 cargo tank motor vehicle, except as modified herein. The portable tank must meet all requirements of Section VIII Division 1 of the ASME Code. The portable tank must be enclosed in a frame capable of withstanding the combined forces expected to be encountered in transportation and handling caused by tank mountings, lifting attachments and tie downs. The maximum design pressure may not exceed 50 psig. The design temperature is -320° F. The maximum capacity may not exceed 2100 gallons.
- (2) The requirements of §§ 178.338-10, 178.338-13 and 178.338-18(b)(9) do not apply to tanks transported under this exemption.
- (3) Each tank must be protected by at least one pressure relief valve and at least one frangible disc arranged to discharge upward and unobstructed to the outside of the housing so as not to impinge against the tank itself, the cargo vessel or any other cargo. Alternatively, where the location of the discharge does not conform to the foregoing provision, suitable measures must be provided so that any release of lading from the road relief valve or any pressure relief device must be prevented from impinging on any part of the vessel.

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b. TESTING - Each portable tank must be reinspected and retested once every five years in accordance with the procedure prescribed in § 180.605 for DOT Specification 51 portable tanks. Nitrogen may be used as a test medium in place of (air or hydrostatic) as required by § 180.605. The test pressure for the inner tank must be determined from the following formulas:

If there is no vacuum in the outer jacket during test:

$$P_T = 1.25 \times P_d$$

If vacuum exists in the outer jacket during test:

$$P_T = [1.25 \times P_d] - 14.7$$

Where:

P_T = Test pressure, psig

P_d = Design pressure (the sum of the maximum allowable working pressure, Static head of liquid in inner tank, psi and 14.7 psi)

c. OPERATIONAL CONTROLS - (1) Each portable tank must be prepared and shipped as required in § 173.318, as applicable for the lading.

(2) Shipments by cargo vessel must conform with § 176.76(g). The portable tank must not be overstowed with other containers or freight.

(3) Any lading road relief valve set at a pressure lower than that prescribed for the (safety) pressure relief valve must be closed during transportation by cargo vessel.

8. SPECIAL PROVISIONS:

a. Use of this exemption is limited to a portable tank, manufactured before February 1, 1999, used for transportation in support of oil and gas production facilities within the jurisdiction of the United States of America.

b. Each tank need not be marked as required by § 178.338-18(a)(1) but instead be plainly and durably marked on both sides near the middle in letters and numbers at least two inches high, on a contrasting background, "DOT-E 12211".

c. A current copy of this exemption must be maintained at each facility where the package is loaded and offered for transportation.

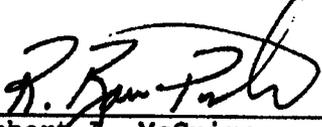
9. MODES OF TRANSPORTATION AUTHORIZED: Cargo vessel (This exemption is not necessary for rail freight or motor vehicle transportation).
10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each cargo vessel used to transport packages covered by this exemption.
11. COMPLIANCE: 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:
- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
 - o Persons operating under the terms of this exemption 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.

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

JUN 17 2004
(DATE)

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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: RT/sln

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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
Cudd Pressure Control, Inc. Oklahoma City, OK	Feb 17, 2004	Mar 15, 2004	Feb 28, 2006
Nitrogen Specialty Co., L.L.C. Harvey, LA	Jun 28, 2004	Jun 30, 2004	Feb 28, 2006
Schlumberger Technologies Corp. Sugar Land, TX	Feb 9, 2004	Jun 17, 2004	Feb 28, 2006
Superior Energy Services, L.L.C. Coiled Tubing Division (Former Grantee: Cardinal) Harvey, LA	Aug 10, 2004 and Aug 17, 2004	AUG 24 2004	Feb 28, 2006

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

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 Date