

November 17, 2008



U.S. Department
of Transportation

East Building, PHH-30
1200 New Jersey Avenue, Southeast
Washington, D.C. 20590

**Pipeline and Hazardous
Materials Safety Administration**

DOT-SP 14453
(FOURTH REVISION)

EXPIRATION DATE: June 30, 2009

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: FIBA Technologies, Inc.
Millbury, MA
2. PURPOSE AND LIMITATION:
 - a. This special permit authorizes the transportation in commerce of certain Division 2.1 and Division 2.2 materials in DOT Specification 3A, 3AA, 3AX, 3AAX and 3T cylinders having a water capacity over 125 lbs that are requalified every ten years rather than every five years when requalified by 100% ultrasonic examination. The cylinders must be mounted in a bundle (tube trailer) or an ISO frame. This special permit provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.
 - 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. Party status will not be granted to this special permit.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 180.209(a) and part of § 180.209 (b), in that cylinders with a capacity over 125 lbs that may be requalified every ten years and they are not required to removed from bundles (tube trailers) and hammer tested prior to each refill; and § 180.209(b) (1) (iv) in that ultrasonic examination is authorized in lieu of hydrostatic testing and visual inspection.

5. BASIS: This special permit is based on the application of FIBA Technologies, Inc. dated December 12, 2006 submitted in accordance with § 107.105 and the public proceeding thereon, and additional information dated July 25, 2008.
6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous Materials Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Air, compressed	2.2	UN1002	N/A
Argon, compressed	2.2	UN1006	N/A
Helium, compressed	2.2	UN1046	N/A
Hydrogen, compressed	2.1	UN1049	N/A
Neon, compressed	2.2	UN1065	N/A
Nitrogen trifluoride, compressed	2.2	UN2451	N/A
Nitrogen, compressed	2.2	UN1066	N/A
Oxygen, compressed	2.2	UN1072	N/A
Sulfur hexafluoride	2.2	UN1080	N/A
Tetrafluoromethane, compressed or Refrigerant gas R 14	2.2	UN1982	N/A
Compressed gas, N.O.S (mixture of hydrogen, argon, helium and/or nitrogen)	2.2	UN1956	N/A
Compressed gas, flammable, N.O.S (mixture of hydrogen, argon, helium and/or nitrogen)	2.1	UN1954	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Packaging prescribed are DOT 3A, 3AA, 3AX, 3AAX and 3T cylinders mounted in a bundle (tube trailer) or an ISO frame that are subjected to periodic retesting, reinspection and marking prescribed in §§ 180.205 and 180.209, and 180.213 except that:

(1) The cylinder must meet all the requirements specified in § 180.209(b) except that the cylinder may have a water capacity over 125 lbs. and is not hammer tested prior to each refill;

(2) Each cylinder must be retested at least once every 10 years by utilizing the 100 percent ultrasonic examination (UE) procedures authorized in DOT-SP 10922 (FIBA Technology, Inc.) except that for cylinders with an outside diameter of 18 inches or larger the Standardization Ring must include a ½" diameter flat bottom hole (FBH) and the area corrosion flaw must be equal to or less than 1.5 sq. in; and

(3) Every five year - each cylinder must be subject to external visual inspection in accordance with CGA pamphlet C-6. FIBA must record the results of the visual inspection of each cylinder and submit the report to the Office of Hazardous Materials Special Permits and Approval (OHMSPA) upon request.

b. OPERATIONAL CONTROLS -

(1) Prior to use of this special permit, for a tube trailer vehicle chassis or a tube module that includes cylinders with an outside diameter (OD) greater than or equal to 18", each cylinder's neck and flange/sleeve must be inspected in accordance with DOT Inspection Procedure, listed on the PHMSA web site, <http://hazmat.dot.gov/enforce/forms/ohmforms.htm#guidance>. The OD neck threads must periodically be inspected at a period no longer than 10 years.

(2) This special permit is limited to the DOT cylinders described in section 7.a.

(3) Maximum cycling (number of fillings) of each cylinder in a 10 year period must be less than or equal

to 600. FIBA must record all fillings of each cylinder and submit the report to OHMSPA upon request.

(4) Prior to use under this special permit, each DOT 3T cylinders must be subjected to shear wave ultrasonic examination (UE). The UE must be performed by an authorized DOT UE special permit holder or cylinder manufacturer. Maximum acceptance defect (sidewall crack) for a tube that is tested by UE shear wave is 5% of the minimum design wall thickness of the tube.

(5) All gases and gas mixture must have a dew point at or below minus 52°F at one atmosphere.

(6) Carbon dioxide or corrosive gas in any concentration cannot be added to cylinders.

(7) Hydrogen or hydrogen bearing gases are not authorized in DOT Specification 3T cylinders.

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this special permit who receives a packaging covered by this special permit may reoffer it for transportation provided no modification or change is made to the packaging and it is reoffered for transportation in conformance with this special permit and the HMR.

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

c. MARKING:

(1) An exterior tube on each side of the bundle or ISO frame must be marked with letters and numbers at least 2 inches high on a contrasting background "DOT-SP 14453".

(2) The current retest date must be marked on the rear or side of the bundle or ISO frame at approximately eye level. In the event retest dates of cylinders differ in a bundle or an ISO frame, the retest date displayed will be that of the oldest retest date, meaning the date of the retest that must occur first.

- d. Transportation of Division 2.1 (flammable gases) materials are not authorized aboard cargo vessel or cargo aircraft only unless specifically authorized in the Hazardous Materials Table (§ 172.101).
9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel, and cargo only aircraft as currently authorized by the regulations for the hazardous materials being transported.
10. MODAL REQUIREMENTS: A current copy of this special permit, the revision per which the current retest was performed, must be carried aboard each motor vehicle, cargo vessel, or cargo only aircraft used to transport packages covered by this special permit. The shipper must furnish a copy of this special permit 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 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.

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 Theodore L. Willke
Associate Administrator for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Material Safety Administration, Department of Transportation, Washington, D.C. 20590. Attention: PHH-31.

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: MMTOUGHIRY/dl