U.S. Department
of Transportation

**Pipeline and Hazardous
Materials Safety Administration**

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

DOT-SP 15389

EXPIRATION DATE: July 31, 2013

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: AMETEK Ameron LLC d/b/a MASS Systems, Baldwin Park, CA

2. PURPOSE AND LIMITATIONS:

a. This special permit authorizes the manufacture, marking, sale and use of non-DOT specification cylinders conforming to all regulations applicable to DOT specification 39 cylinders, except as specified herein, for the transportation in commerce of compressed oxygen and flammable or non-flammable gases authorized by this special permit. 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 development of this special permit only considered the hazards and risks associated with transportation in commerce. The safety analyses did not consider the hazards and risks associated with consumer use, use as a component of a transport vehicle or other device, or other uses not associated with transportation in commerce.

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

4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§173.301(a)(1), 173.302a(a)(1) and 173.304a(a)(1) in that a non-DOT specification cylinder is not authorized; §§173.302(f)(1), and 173.304(f)(1) in that a non-specification cylinder is not authorized for the transportation of oxygen or other oxidizing gases aboard an aircraft; and §§ 173.302(f)(2) and

173.304(f)(2) in that the rated burst pressure of the pressure relief device on cylinders used for the transportation of oxygen and other oxidizing gases aboard an aircraft must be as prescribed in those paragraphs, except as provided herein.

5. BASIS: This special permit is based on the application of AMETEK Ameron LLC d/b/a MASS Systems dated June 15, 2011, and additional information dated August 5 and 12, 2011, submitted in accordance with § 107.105 and the public proceeding thereon.

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

| **Hazardous Material Description** | | | |
|---|---|---|---|
| **Proper Shipping Name** | **Hazard Class/ Division** | **Identi- fication Number** | **Packing Group** |
| Oxygen, compressed | 2.2 | UN1072 | N/A |
| Flammable gases listed in 49 CFR that are authorized in DOT 39 specification cylinders | 2.1 | As appropriate | As appropriate |
| Non-flammable gases listed in 49 CFR that are authorized in DOT 39 specification cylinders | 2.2 | As appropriate | As appropriate |

7. SAFETY CONTROL MEASURES:

PACKAGING - Packaging prescribed is a non-DOT, non-refillable stainless steel cylinder made in accordance with AMETEK Ameron LLC, d/b/a MASS Systems drawings OS00600-B, OS00602-A and OS00605-C and the information provided in the report, DTR-OS00600-Rev A, on file with the Office of Hazardous Materials Special Permits and Approvals (OHMSPA). The cylinders must be in conformance with DOT-39 specification (§§ 178.35 and 178.65) except as follows:

*§ 178.65(a) Type, size, service pressure and test pressure.*

Each cylinder must be welded construction with a marked service pressure not to exceed 80 percent of test pressure or 3,600 psig, whichever is less.

(1) *Size limitation:* Maximum water capacity may not exceed 10 pounds (277 cubic inches).

(2) *Test Pressure:* Maximum test pressure is 4,500 psig.

*§ 178.65(b) Materials - Steel as specified below*:

(1) *Steel.* (i) Type Nitronic 40 (ARMCO 21-6-9) austenitic stainless steel with analysis as follows:

| Element | (Percent) |
|---|---|
| C | 0.04 Max. |
| Mn | 8.00/10.00 |
| P | 0.060 Max. |
| S | 0.030 Max. |
| Si | 1.00 Max. |
| Cr | 19.00/21.50 |
| Ni | 5.50/7.50 |
| N | 0.15/0.40 |

(ii) Not applicable

(iii) * * *

(iv) Materials with longitudinal welds such as electric resistance welded/gas tungsten arc welded and drawn over mandrel tubing that is manufactured and tested as shown in the application are authorized.

(2) Not applicable

(3) and (4) * * *

*§ 178.65(c) Manufacture.*

(1) * * *

(2) * * *

(i) through (v) Not applicable.

* * * *

*§ 178.65(d) Wall thickness*

* * *

(1) * * *

(2) Not applicable.

*§ 178.65(e) Openings and attachments * * **

*§ 178.65(f) Pressure tests.*

(1) * * *

(2) * * *

(i) through (iii) * * *

(iv) Not applicable

(3) * * *

*§ 178.65(g) Flattening test. * * **

*§ 178.65(h) Rejected cylinders. * * **

*§ 178.65(i) Markings.*

Applies except that "DOT-SP 15389" replaces "DOT-39"

b. OPERATIONAL CONTROLS -

(1) Cylinders must not be filled to a pressure exceeding the marked service pressure at 70°F.

(2) Cylinders must be shipped in strong outside packaging in accordance with §173.301(a)(9).

(3) Transportation of oxygen by aircraft is authorized only when in accordance with 175.501

(4) When pressurized, the cylinders must be equipped with a pressure relief device (PRD) conforming to the requirements of DOT Specification 39 cylinder under CGA Pamphlet S-1.1.

8. SPECIAL PROVISIONS:

a. In accordance with the provisions of Paragraph (b) of § 173.22a, persons may use the packaging authorized by this special permit for the transportation of the hazardous materials specified in paragraph 6, only in conformance with the terms of this special permit.

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

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

d. Each packaging manufactured under the authority of this special permit must be either (1) marked with the name of the manufacturer and location (city and state) of the facility at which it is manufactured or (2) marked with a registration symbol designated by the Office of Hazardous Materials Special Permits and Approvals for a specific manufacturing facility.

e. A current copy of this special permit must be maintained at each facility where the packaging is manufactured under this special permit. It must be made available to a DOT representative upon request.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor Vehicle, Cargo Aircraft, Cargo Vessel, Passenger-carrying Aircraft, Rail Freight.

10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each cargo vessel, aircraft or motor vehicle 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:

    - All terms and conditions prescribed in this special permit and the Hazardous Materials Regulations, 49 CFR Parts 171-180.

    - 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.

    - 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 Dr. Magdy El-Sibaie
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.

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: RSHAFKEY