

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

Pipeline and Hazardous Materials Safety Administration

DOT-SP 15132 (SECOND REVISION)

EXPIRATION DATE: August 31, 2016

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: National Aeronautics and Space Administration (NASA)
Washington, DC

2. PURPOSE AND LIMITATION:

- a. This special permit authorizes the transportation in commerce of certain Division 2.1 and 2.2 gases in non-DOT specification cylinders similar to DOT Specification 4D cylinders by motor vehicle. 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. No party status will 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 §§ 173.301 and 178.53 in that alternative packaging is authorized as provided herein; and § 173.301(h) in that valve protection is not required.
- 5. <u>BASIS</u>: This special permit is based on the application of National Aeronautics and Space Administration (NASA) dated September 10, 2012, submitted in accordance with § 107.109.

September 19, 2012

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous Materials Description			
Proper Shipping Name	Hazard Class/ Division	Identifi cation 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
Nitrogen, compressed	2.2	UN1066	N/A
Oxygen, compressed	2.2	UN1072	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING - The prescribed packaging are non-DOT specification cylinders similar to DOT Specification 4D cylinders that are constructed in accordance with drawings on file with the Office of Hazardous Materials Special Permits and Approvals (OHMSPA). The cylinders have a maximum water capacity of 2100 cubic inches and a Maximum Expected Operating Pressure (MEOP) of 150 psig. The cylinders must be in conformance with DOT Specification 4D (§§178.35 and 178.53), except as follows:

§ 178.53(a) Type, size and service pressure.

Authorized cylinder is a welded steel sphere (two seamless hemispheres) or circumferentially welded cylinder (two seamless drawn shells) with a water capacity not over 100 pounds and a maximum service pressure of 150 psig. Cylinders closed in by the spinning process are not authorized.

§ 178.53(e) Wall thickness.

The sidewall thickness is 0.051 inch and the head minimum wall thickness is 0.04 inch.

§ 178.53(m) Marking.

Each cylinder must be marked "DOT-SP 15132" in lieu of DOT 4D. Each cylinder must be stamped plainly and permanently where the metal is at least 0.09 inch thick, or on a metal nameplate permanently secured to the cylinder by means other than soft solder, or by means that will not reduce the wall thickness.

b. OPERATIONAL CONTROLS -

- 1. The minimum quaranteed burst pressure is 1000 psig.
- 2. Each cylinder must be packaged in a strong outside packaging as prescribed in § 173.301(a)(9). Alternatively, cylinders must be placed in a vehicle-mounted transport rack and securely restrained with cargo straps. The procedures for pre-transport handling of the sample cylinders must be documented in the NASA Operations Maintenance Instruction (OMI) document and provided to the Office of Hazardous Materials Special Permits and Approvals (OHMSPA).
- 3. The cylinders must not be lifted more than 5 feet above the ground.
- 4. During pre-transport operations the cylinders must not be placed in locations or handled such that objects, tools or debris can be dropped onto the valve assemblies.

8. SPECIAL PROVISIONS:

- a. A person who is not a holder of this special permit who 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 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.

- 9. MODES OF TRANSPORTATION AUTHORIZED: Motor Vehicle.
- 10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each motor vehicle used to transport packages covered by this special permit.
- 11. <u>COMPLIANCE</u>: 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 <u>et</u> 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.
 - 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.

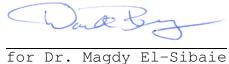
No person may use or apply this special permit, including display of its number, when this special permit has expired or is otherwise no longer in effect.

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.

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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 notices 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.:



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: BrMoore:sg