July 15, 2009

U.S. Department
of Transportation

Pipeline and Hazardous
Materials Safety Administration

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

DOT-SP 14829

EXPIRATION DATE: June 30, 2011

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: NASA Langley Research Center
Hampton, VA

2. PURPOSE AND LIMITATION:

a. This special permit authorizes the transportation in commerce of nitric oxide, compressed in an alternative packaging for disposal 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 § 173.337 in that the use of a UN specification combination package is not authorized, except as specified herein.

5. BASIS: This special permit is based on the application of Reactives Management Corporation on behalf of NASA Langley Research Center dated March 20, 2009, and additional information dated May 19, and July 7, 2009 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**	**Identi-fication Number**	**Packing Group**
Nitric oxide, compressed	2.3	UN1660	N/A Hazard Zone A

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Prescribed packaging system is as follows:

(1) The inner packaging is a cylindrical glass ampoule of approximately 0.8 ml volume filled with nitric oxide as described in the application dated March 20, 2009 on file with the Office of Hazardous Materials Special Permits and Approvals (OHMSPA).

(2) The outer packaging is a UN Specification 4G fiberboard box with intermediate friction-lid metal can and locking ring with a maximum gross mass of 19.4 kilograms as described in Wyle Laboratories test report T5446-12+AC2702 dated May 12, 2009 on file with OHMSPA. Any void space in the prescribed metal must be filled with absorbent material. The packaging must be closed and sealed in accordance with the manufacturer's packaging instructions.

b. OPERATIONAL CONTROLS -

(1) The completed package must be shipped in a compartment separate from the driver.

(2) The package must be on the top of a stack or separate from any stacks and must be adequately secured to prevent shifting and movement during transportation.

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.

c. Each package must be plainly and durably marked "DOT-SP 14829" as required by § 172.301(c).

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. 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 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, 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: MOOREBE