

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

#### Pipeline and Hazardous Materials Safety Administration

DOT-SP 11536 (TENTH REVISION)

EXPIRATION DATE: December 31, 2010

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: The Boeing Company Los Angeles, CA

#### 2. PURPOSE AND LIMITATION:

- a. This special permit authorizes the transportation in commerce of certain hazardous materials in non-DOT specification packagings (spacecraft) and limited quantities of Division 1.4S and 1.4C explosives secured within the spacecraft. This special permit provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.
- 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.
- 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 § 172.102(c) Special Provision 101 for naming the specific substance; venting requirements under § 173.24(g); packaging requirements under § 173.62, § 173.202 and § 173.211; and § 173.304a and § 175.3 in that a non-DOT specification cylinder is authorized as specified herein.

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5. <u>BASIS</u>: This special permit is based on the application of Boeing Company dated June 29, 2007 submitted in accordance with § 107.117 and a determination that it is necessary for purposes of immediate national security. Supplemental applications were submitted on December 11 and 18, 2008.

## 6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Materials Description	Hazard Class/ Division	Identi- fication Number	Packing Group
Ammonia, anhydrous	2.3	UN1005	Hazard Zone D
Ammonia, anhydrous	2.2	UN1005	Inhalation Hazard
Argon, compressed	2.2	UN1006	N/A
Articles, explosive, n.o.s.	1.4C	UN0351	II
Articles, explosive, n.o.s.	1.4S	UN0349	II
Cesium	4.3	UN1407	I
Helium, compressed	2.2	UN1046	N/A
Hydrogen, compressed	2.1	UN1049	N/A
Krypton, compressed	2.2	UN1056	N/A
Nitrogen, Compressed	2.2	UN1066	N/A
Propylene	2.1	UN1077	N/A
Refrigerant gas, R 404A	2.2	UN3337	N/A
Rubidium	4.3	UN1423	I
Xenon	2.2	UN2036	N/A

## 7. SAFETY CONTROL MEASURES:

a. <u>PACKAGING</u> - Packagings are components of a spacecraft. Xenon gas must be packaged in carbon-filament wrapped aluminum or titanium cylinders complying with the applicable sections of MIL-STD-1522A (USAF) for pressurized systems, dated May 28, 1984. Anhydrous ammonia must be packaged in

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heat pipe/radiators. Pressure relief devices are not required. All spacecraft batteries must be non-spillable in compliance with the requirements of § 173.159(d). The explosives must be secured in the spacecraft. The spacecraft must be packaged in the "Belfast container" (7705995-12-200), the "Boeing shipping container / transporter" (8074389), the HS-376 shipping container (3566812), the HS 601 shipping container (7730520-12-300) with continuous nitrogen or air flow as shown in the original application and the application for modification. Note: the nitrogen or air flow expelled from the shipping container during transit is not to be considered leakage of hazardous material. cesium and rubidium are enclosed inside the Frequency Standard, which are installed as an integral part of the spacecraft. Each Frequency Standard will have less than 5 grams of material in a hermetically sealed tube.

- b. The requirements for venting under § 173.24(g) are waived. When nitrogen flow is used, precautions must be taken to prevent the creation of asphyxiating conditions in a closed space and only unpressurized cargo compartments may be used when shipping by air.
- c. Propylene may be used in the cooling system in lieu of anhydrous ammonia.
- d. Quantities of materials shall not exceed that specified in the applications.
- 8. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, cargo vessel, cargo aircraft only.
- 9. 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.
- 10. <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 seq</u>:
  - 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.:

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for Theodore L. Willke

Associate Administrator for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous

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Materials Safety, Pipeline and Hazardous Materials 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: KFW/AM