

June 10, 2021



U.S. Department  
of Transportation

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

**Pipeline and Hazardous  
Materials Safety Administration**

DOT-SP 21140

**EXPIRATION DATE: 2023-05-31**

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Philips Medical Systems MR, Inc  
Latham, NY
2. PURPOSE AND LIMITATION:
  - a. This special permit authorizes the transportation in commerce of MRI machines that incorporate non-DOT specification pressure vessels containing compressed helium. This special permit provides no relief from the Hazardous Materials Regulations (HMR), the International Civil Aviation Organization's Technical Instructions for the Safe Transport of Dangerous Goods by Air (ICAO TI), or the International Maritime Dangerous Goods (IMDG) Code 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.
  - d. This special permit serves as an approval under Part 6, Chapter 5, Paragraph 5.1.1.2 and Part 6, Chapter 5, Paragraph 5.1.6 of the ICAO TI; as an approval under Chapter 6.2, Paragraph 6.2.1.1.2 and Chapter 7.9, Paragraph 7.9.1 of the IMDG Code; and as a "Competent Authority Approval" as defined under 49 CFR § 107.1.

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3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.302a(a)(1) in that non-DOT specification pressure receptacles are authorized, as provided herein.
5. BASIS: This special permit is based on the application of Philips Medical Systems MR, Inc dated November 24, 2020, submitted in accordance with § 107.105 and the public proceeding thereon.
6. HAZARDOUS MATERIALS (49 CFR 172.101):

<b>Hazardous Materials Description</b>			
<b>Proper Shipping Name</b>	<b>Hazard Class/ Division</b>	<b>Identification Number</b>	<b>Packing Group</b>
Helium, compressed	2.2	UN1046	N/A

7. SAFETY CONTROL MEASURES:
  - a. PACKAGING - Prescribed packagings are non-DOT specification cylinders installed in an MRI machine. The cylinders are designed in accordance with ASME Section VIII, Division I (2019), welded at the ends, and have a maximum allowable working pressure (MAWP) of 1,319 psig. Each cylinder must initially be hydrostatic pressure tested at 1908 psig. Each MRI contains six cylinders each filled with a maximum of 1.5 kg of helium. The total volume of all six cylinders is 108L (18L each). Each cylinder must comply with the design calculations, drawings, material specifications, and engineering specifications submitted with Phillips application for special permit on file with the Office of Hazardous Materials Safety (OHMS) and in accordance with the following requirements:

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(1) Burst disks must conform to ASME Section VIII, Division I, 2019 code requirements from UG-125 to UG-140.

(2) Each outside package must be marked with "DOT-SP 21140".

b. TESTING: When installed in the MRI machine, authorized cylinders are not required to be periodically inspected, or requalified in accordance with the requirements of the HMR and Part 6, Chapter 5, Paragraph 5.1.6 of the ICAO Technical Instructions. If a cylinder is removed from the MRI machine, it must be externally visually examined and must pass a hydrostatic pressure test to a test pressure of 1908 psig before being placed back into service.

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 or its contents 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, rail freight, cargo vessel, passenger-carrying aircraft, and cargo-only aircraft.

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.

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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

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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 William Schoonover  
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 <https://www.phmsa.dot.gov/approvals-and-permits/hazmat/special-permits-search>. Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PO: Andrew Eckenrode