



U.S. Department
of Transportation

**Pipeline and Hazardous
Materials Safety
Administration**

April 16, 2026

1200 New Jersey Avenue, SE
Washington, DC 20590

DOT-SP 22253

EXPIRATION DATE: 2026-09-30

(FOR RENEWAL, SEE 49 CFR 107.109)

1. **GRANTEE:** MacDonald, Dettwiler and Associates Corporation
British Columbia, Canada

US AGENT: Globalstar, Inc.
Covington, LA
2. **PURPOSE AND LIMITATIONS:**
 - a. This emergency special permit authorizes the transportation in commerce of non-DOT specification cylinders installed in a satellite. 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(f) in that the non-DOT specification cylinder is not equipped with a pressure relief device; § 173.302a(a)(1) in that non-DOT specification cylinders are authorized.
5. **BASIS:** This emergency special permit is based on the application of MacDonald, Dettwiler and Associates Corporation dated April 07, 2026, submitted in accordance with § 107.117 and the determination it was necessary to prevent significant economic loss.

Tracking Number: 2026044247

6. HAZARDOUS MATERIALS (49 CFR 172.101):

Hazardous Material Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Krypton, compressed	2.2	UN1056	N/A
Xenon, compressed	2.2	UN2036	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING: Prescribed packaging is a non-DOT specification cylinder designed to meet the requirements of AIAA/ANSI Standard S-081B Space Systems Composite Overwrapped Pressure Vessels Standards and manufactured by Eaton with a design maximum expected operating pressure (MEOP) of 4,350psi. Cylinders are not equipped with pressure relief devices and must be as described in MacDonald, Dettwiler and Associates Corporation's April 7, 2026, application on file with the Office of Hazardous Materials Safety (OHMS).

b. OPERATIONAL CONTROLS: Each cylinder must be installed in a satellite, and the satellite must be securely restrained in a motor vehicle during transportation.

c. MARKING: The outer transport container or cover must be plainly and durably marked on two opposing sides in letters at least 2 inches in height on a contrasting background: "DOT-SP 22253" and "DO NOT STACK".

8. SPECIAL PROVISIONS: 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. 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 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 Quade
Acting Associate Administrator for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Materials Safety Administration, U.S. Department of Transportation, East Building PHH-6, 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.