U.S. Department
of Transportation
**Research and
Special Programs
Administration**

400 Seventh St., S.W.
Washington, D.C. 20590

FEB 16 2001

DOT-E 10511
(FOURTH REVISION)

EXPIRATION DATE: January 31, 2003

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Schlumberger Well Services, a Division of Schlumberger Technology Corporation Sugar Land, Texas

2. PURPOSE AND LIMITATION:

a. This exemption authorizes the transportation in commerce of certain non-DOT specification stainless steel cylinders containing Sulfur Hexafluoride (SF_6) classed as a Division 2.2 material. This exemption provides no relief from any regulation other than as specifically stated herein.

b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce.

3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.

4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.304 in that a non-DOT specification packaging is not authorized, except as specified herein.

5. BASIS: This exemption is based on the application of Schlumberger Well Services dated January 22, 2001, submitted in accordance with § 107.109.

6. HAZARDOUS MATERIALS (49 CFR § 172.101): FEB 16 2001

Hazardous materials description -- proper shipping name	Hazard Class/ Division	Identi- fication Number	Packing Group
Sulfur hexafluoride	2.2	UN1080	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Packaging prescribed consists of a sealed stainless steel cylinder called either TNG or PNG, within one of eight housings or transport containers which are described below. The TNG or PNG contains electronic circuitry and will be charged with a volume of not more than 22 cubic inches of sulfur hexafluoride through a quick connect valve to a pressure not exceeding 100 psig at room temperature (20°C). The TNG or PNG has three designs and are designed in accordance with drawing numbers DH343573, DH547563 or DH547564. Welded versions of the TNG or PNG may be used in place of the standard TNG or PNG. These are dimensionally the same as the standard TNG or PNG except for differences required to replace O-ring seals with welds, and to replace the quick connect valve with a metal tube pinch-off. The TNG or PNG is transported in one of four configurations:

(1) The TNG in the TNH housing, which is a stainless steel external pressure housing designed in accordance with drawing number DH343572.

(2) The TNG in the UDFH housing, which is similar to the TNH, but has heavier wall construction.

(3) The TNG or PNG in CYC carrying cases, which are heavy walled aluminum transport containers designed in accordance with drawing numbers DH541197, DH547581 or DH547583.

(4) The PNG in the RSSH or APH housings, which are stainless steel, external pressure housings designed in accordance with drawing numbers DH547549, DH547556 or DH547562.

This exemption is granted only for the packaging described in drawings and accompanying analysis which are on file with the Office of Hazardous Materials Exemptions and Approvals.

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b. TESTING - Each TNH, UDFH, RSSH or APH external housing is pressure tested to 16,000 psig minimum external pressure before being put into service.

c. OPERATIONAL CONTROLS:

(1) The driver of the transport vehicle must be instructed that when the vehicle is in an accident involving spilled fuel or fire, the vehicle must be moved to a safe location unless moving the vehicle would directly endanger others.

(2) Emergency response information provided with the shipment and available via an emergency response telephone number must indicate that the receptacles are not fitted with pressure relief devices and provide appropriate guidance in case receptacles are exposed to fire.

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this exemption who receives a package covered by this exemption may reoffer it for transportation provided no modifications or changes are made to the package and it is reoffered for transportation in conformance with this exemption and the HMR.

b. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.

c. MARKING - The outside of each packaging offered under the authority of this exemption must be stamped plainly and permanently on the shoulder, top head, neck or sidewall as follows:

"DOT-E 10511 100."

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel, cargo aircraft only, and passenger-carrying aircraft.

10. MODAL REQUIREMENTS:

a. A current copy of this exemption must be carried aboard each cargo vessel, aircraft or motor vehicle used to transport packages covered by this exemption. The shipper must furnish a copy of this exemption to the air carrier before or at the time the shipment is tendered.

b. Motor carriers operating under the terms of this exemption must have a "Satisfactory" or "Conditional" safety rating as prescribed in 49 CFR Part 385.

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

- All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

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

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incident involving the package and shipments made under the terms of this exemption.

Issued in Washington, D.C.:

FEB 16 2001
(DATE)

Robert A. McGuire
Associate Administrator
for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590.
Attention: DHM-31

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The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

Copies of exemptions may be obtained from the AAHMS, U.S. Department of Transportation, 400 7th Street, S.W., Washington, DC 20590-0001, Attention: Records Center, 202-366-5046.

PO: TOlson/am