U.S. Department
of Transportation

**Research and
Special Programs
Administration**

400 Seventh Street S.W.
Washington D.C. 20590

OCT 8 1998

DOT-E 11228
(FIRST REVISION)

EXPIRATION DATE: September 30, 2000

(FOR RENEWAL, SEE 49 CFR SECTION 107.109.)

1. GRANTEE: High Voltage Environmental Applications, Inc.
Cape Coral, Florida

2. PURPOSE AND LIMITATION: This exemption authorizes the transportation in commerce of a specially designed non-DOT specification packaging containing compressed sulfur hexafluoride. This exemption provides no relief from any regulation other than as specifically stated herein.

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

4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR 173.302(c).

5. BASIS. This exemption is based on High Voltage Environmental Applications, Incorporated's application dated September 23, 1998, submitted in accordance with 49 CFR 107.109.

6. HAZARDOUS MATERIALS (49 CFR 172.101):

Hazardous materials description/proper shipping name	Hazard Class/ Division	Identification number	Packing Group
Sulfur hexafluoride	Division 2.2	UN1080	N/A

7. PACKAGING AND SAFETY CONTROL MEASURES:

a. PACKAGING - Packagings prescribed are two non-DOT specification packagings which are components of a mobile electron beam unit: the Insulating Core Transformer (ICT) tank, and the electron accelerator tube (accelerator) tank. Both steel tanks utilize sulfur hexafluoride (SF_6) as an insulating material. The tanks are designed, manufactured, and stamped in accordance with the ASME Code, Section VIII Division 1 and must conform with the U-1A forms, calculations, and drawings on file with the Office of Hazardous Materials Exemptions and Approvals. The ICT tank has a maximum allowable working pressure of 40 psig and contains 107 pounds of SF_6 at 40 psi. The accelerator tank has a maximum allowable working pressure of 120 psig and contains 17 pounds of SF_6 at 100 psi.

b. MARKING - The marking requirements in § 172.302(c) are waived.

8. SPECIAL PROVISIONS.

a. Persons who receive the packages covered by this exemption may reoffer them for transportation provided no modifications or changes are made to the packages, all terms of this exemption are complied with and a current copy of this exemption is maintained at each facility from which such reoffering occurs.

b. Shippers using the packaging covered by this exemption must comply with all provisions of this exemption, and all other applicable requirements contained in 49 CFR Parts 171-180.

9. MODES OF TRANSPORTATION AUTHORIZED. Motor vehicle.

10. MODAL REQUIREMENTS: A copy of this exemption must be carried aboard each motor vehicle used to transport packages covered by this exemption.

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 laws:

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

Each "Hazmat employee", as defined in 49 CFR 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 49 CFR 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 unless.

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. (49 CFR 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 incidents involving the package and shipments made under the terms of this exemption.

Issued at Washington, D.C.:

for Ann Mazzullo 10/8/98

Alan I. Roberts (DATE)
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.

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, SW, Washington, DC, 20590-0001, Attention: Records Center, 202-366-5046.

Dist: FHWA
PO: sln