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

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

MAR 2 9 2004

DOT-E 12698
(THIRD REVISION)

EXPIRATION DATE: June 30, 2005

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Precision Technik, Inc.
Atlanta, GA
(FORMER GRANTEE: Integrated Environmental Services, Inc.)

2. PURPOSE AND LIMITATION:

a. This exemption authorizes the transportation in commerce of a non-DOT specification, full opening head salvage cylinder of 31 gallon water capacity, for overpacking a damaged or leaking cylinder of hazardous materials. This exemption provides no relief from the Hazardous Materials Regulations (HMR) 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 § 173.301(f) in that the salvage cylinder does not have a pressure relief device, and §§ 173.192, 173.201, 173.202, 173.203, 173.226, 173.227, 173.302a(a), and 173.304a(a) in that a non-DOT specification cylinder is not authorized, except as specified herein.

5. BASIS: This exemption is based on the application of Precision Technik, Inc., Incorporated dated September 22, 2003, and additional information dated October 1, 2003, and December 31, 2003, submitted in accordance with § 107.105 and the public proceeding thereon.

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6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Materials Description	Hazard Class/ Division	Identi-fication Number	Packing Group
Class 3 & 4 materials, Division 2.1 gases (except acetylene), 2.2, 2.3, 6.1 and materials authorized for shipment in DOT Specification cylinders	Classes 3 and 4 and Divisions 2.1, 2.2, 2.3, or 6.1 as appropriate	As appropriate	As appro-priate

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Packagings prescribed are non-DOT specification full-opening head carbon steel salvage cylinders of welded construction, with provisions for securely positioning the damaged cylinder contained therein. Each salvage cylinder must conform with either:

(1) Integrated Environmental Services, Incorporated drawing numbers OP-1 Type B dated March 27, OP-2 Type B dated February 23, 2001, and OP-3 Type B dated February 23, 2001 on file with the Office of Hazardous Material Exemptions and Approvals (OHMEA). Each salvage cylinder must be designed, constructed and stamped for lethal service in accordance with Section VIII, Division I of the ASME Code and conform to the following criteria:

Volume	31 gallons water capacity, nominal
Material	Schedule 60 ASTM 53 Grade B carbon steel
Design stress at MAWP	3,627 psi
Outside diameter	12.75 inches, nominal
Length	84.0 inches, nominal
Design wall thickness	0.492 inch minimum
Design service pressure	1,200 psig (82.8 bar)
Test pressure	1,800 psig (124.1 bar)
Openings:	
On sidewall	Four - 3/8 inch NPT for: a

	pressure regulator, gauge, auxiliary sample line, and nitrogen purge; One - 3/4 inch NPT for liquid transfer
Pressure relief device	None
Welded attachments	Two top lifting brackets, or

(2) Integrated Environmental Services, Incorporated drawing number HP-10-1, Revision A, sheets one through three dated December 9, 2002, or Precision Tecknik drawing number HP-10-1 Revision D, dated December 31, 2003, on file with the Office of Hazardous Material Exemptions and Approvals (OHMEA). Each salvage cylinder must be designed, constructed and stamped for lethal service in accordance with Section VIII, Division I of the ASME Code and conform to the following criteria:

Volume	31 gallons water capacity, nominal
Material	Schedule 60 ASTM 53 Grade B carbon steel
Design stress at MAWP	3,627 psi
Outside diameter	12.75 inches, nominal
Length	84.0 inches, nominal
Design wall thickness	0.492 inch minimum
Design service pressure	1,200 psig (82.8 bar)
Test pressure	1,800 psig (124.1 bar)
Openings:	
On sidewall	Three 1/4 inch NPT for: a pressure gauge; drawing gas from the vessel for sampling and/or processing; and nitrogen purging the cylinder; and One 1/2 inch NPT for an auxiliary penetration; and One 1/2 inch NPT for liquid drainage.
Pressure relief device	None
Welded attachments	Two top lifting brackets

b. TESTING - Each salvage cylinder must be cleaned and purged after each use and must be visually inspected (internally and externally) and hydrostatically retested once every 2 years at a test pressure of at least 1800 psig. The visual inspections must be performed in accordance with the Compressed Gas Association's Pamphlet C-6. The retest and inspection must be made by an employee that is familiar

with the salvage cylinder and is trained and experienced in the use of the inspection and testing equipment. Records of retest must be made available to a DOT representative upon request.

c. OPERATIONAL CONTROLS -

(1) Salvage cylinders are authorized for use only with damage or leaking cylinders whose contents are limited in pressure and volume so that if totally discharged into the salvage cylinder, the pressure in the salvage cylinder will not exceed: (1) 1,200 psig at 70°F for non-liquefied gases, and (2) 1,200 psig at 130°F for liquefied gases.

(2) Each salvage cylinder must be cleaned and purged after each use.

8. SPECIAL PROVISIONS.

a. Drivers and persons who load, unload or transport these cylinders must have been trained in handling, loading and unloading the cylinder. The loaded salvage cylinder must be delivered to the consignor or consignee as soon as practicable.

b. Transportation is limited to motor vehicles owned or leased by the holder of this exemption or its customers or vehicles owned or leased by contract carriers employed by the exemption holder.

c. Each salvage cylinder must be plainly marked on opposite sides near the middle, in letters at least 2 inches high on a contrasting background "DOT-E 12698" and "SALVAGE CYLINDER".

d. Each salvage cylinder must be labeled as prescribed for its lading.

e. Each salvage cylinder must be secured to the motor vehicle by a securement system that conforms with the requirements contained in 49 CFR §§ 393.100 to 393.106.

f. A person who is not a holder of this exemption who receives a packaging 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.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle.

10. MODAL REQUIREMENTS: A current 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 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.

- Persons operating under the terms of this exemption must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.

- 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 incidents involving the package and shipments made under the terms of this exemption.

Issued in Washington, D.C.:

MAR 2 9 2004
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.

Copies of this exemption may be obtained by accessing the Hazardous Materials Safety Homepage at http://hazmat.dot.gov/exemptions Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

PO: DB/ss