U.S. Department
of Transportation

**Research and
Special Programs
Administration**

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

DOT-E 5403 (PTE)
EIGHTH REVISION March 21, 1990

In accordance with 49 CFR 107.111 of the Department of Transportation (DOT) Hazardous Materials Regulations (HMR), the party(ies) listed below is granted the status of party to DOT-E 5403. The expiration date of the exemption for the party(ies) is July 31, 1995.

This emergency party status, which will prevent serious economic loss, applies only to the party(ies) listed below based on the application(s) received in accordance with 49 CFR 107.113. All terms of the exemption remain unchanged. This authorization forms part of the exemption and must be attached to it. This emergency party status is not retroactive.

Suzanne Hedgepeth

Alan I. Roberts
Associate Administrator
for Hazardous Materials Safety

MAR 31 1995
(DATE)

Dist: FHWA USCG

EXEMPTION HOLDER	APPLICATION DATE
HydroChem Industrial Services, Inc. Houston, TX	March 30, 1995

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

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DOT-E 5403 (EXTENSION)
EIGHTH REVISION March 21, 1990

In accordance with 49 CFR 107.105 of the Department of Transportation (DOT) Hazardous Materials Regulations DOT-E 5403 is hereby extended for the party(ies) listed below by changing the expiration date in paragraph 10 to September 30, 1995. This change is effective from the issue date of this extension. All other terms of the exemption remain unchanged.

This extension applies only to party(ies) listed below based on the application(s) received in accordance with 49 CFR 107.105. This extension constitutes a necessary part of this exemption and must be attached to it.

NOV 30 1993
(DATE)

Alan I. Roberts
Associate Administrator
for Hazardous Materials Safety

Dist: FHWA USCG

EXEMPTION HOLDER	APPLICATION DATE
Brown & Root Industrial Services, Inc. Pasadena, TX	September 1, 1993
Halliburton Company Duncan, OK	October 7, 1993

ADVISORY

IF YOU ARE A HOLDER OF AN EXEMPTION THAT AUTHORIZES THE USE OF A PACKAGING WITH A MAXIMUM CAPACITY LESS THAN 450 L (119 GALLONS) OR A MAXIMUM NET MASS LESS THAN 400 KG (882 POUNDS), PLEASE BE ADVISED THAT YOUR EXEMPTION MAY NOT BE RENEWED BEYOND SEPTEMBER 30, 1996. IN ADDITION, NO NEW CONSTRUCTION OF PACKAGINGS WHICH FALL WITHIN THE NON-BULK CAPACITIES LISTED ABOVE ARE AUTHORIZED AFTER SEPTEMBER 30, 1994. THIS IS CONSISTENT WITH THE IMPLEMENTATION OF THE NEW PACKAGING REQUIREMENTS ADOPTED UNDER DOCKET HM-181. ANY APPLICATION SUBMITTED TO THIS OFFICE TO RENEW AN EXEMPTION BEYOND THE SEPTEMBER 30, 1996 DATE WILL BE DENIED UNLESS THE APPLICATION CONTAINS SUPPORTING INFORMATION TO JUSTIFY THE CONTINUATION OF THE EXEMPTION.

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MAR 21 1990

DOT-E 5403
(EIGHTH REVISION)

1. Halliburton Services Company, Duncan, Oklahoma, is hereby granted an exemption from certain provisions of this Department's Hazardous Materials Regulations to transport packages prescribed herein of certain corrosive materials for transportation in commerce subject to the limitations and special requirements specified herein. This exemption authorizes use of a cargo tanks meeting the requirements of DOT Specification MC-312 and those with certain exceptions, in support of oil well acidizing and industrial cleaning operations, and provides no relief from any regulation other than specifically stated. Each of the following is hereby granted the status of a party to this exemption:

Otis Engineering Corp., Dallas, TX -PTE-1.

2. BASIS. This exemption is based on Halliburton Services Company's application dated December 19, 1989, submitted in accordance with 49 CFR 107.105 and the public proceeding thereon. The granting of party status is based on the following application submitted in accordance with 49 CFR 107.111 and 107.105 and the public proceeding thereon:

Vann Systems'application dated December 19, 1989 and supplemental correspondence dated March 12, 1990, from Otis Engineering Corporation.

3. HAZARDOUS MATERIALS (Descriptor and class).

a. Inhibited hydrochloric acid and mixtures containing inhibited hydrochloric acid having a corrosion rate on steel not exceeding 0.04 inches per year (IPY) classed as corrosive material, in either lined or unlined tanks.

b. Uninhibited hydrochloric acid and mixtures containing uninhibited hydrochloric acid classed as a corrosive material, in lined tanks only.

c. Any corrosive material authorized by 49 CFR Part 173, Subpart F for shipment in unlined DOT Specification MC-312 cargo tanks specifically identified to and acknowledged in writing by the Office of Hazardous Materials Transportation (OHMT) prior to initial shipment, in either lined or unlined tanks.

d. Solutions of inhibited sulfuric acid (not exceeding 15% concentration), or solutions of inhibited sludge acids, classed as corrosive material, in lined tanks only.

4. PROPER SHIPPING NAME (49 CFR 172.101). Hydrochloric acid solution, inhibited; Hydrochloric acid mixture; Corrosive liquid, n.o.s., Sodium hydroxide, solution; Ammonium hydroxide solution; Formic acid solution; Acetic acid solution; Sulfuric acid solution; Phosphoric acid solution; Hydrofluoric acid solution; Nitric acid solution; Sludge acid or sludge acid solution; and other proper shipping names shown in 49 CFR 172.101 appropriate to oil well acidizing and/or industrial cleaning operations.

5. REGULATION AFFECTED. 49 CFR 173.245(a)(31); 173.248(a)(6); 178.249(a)(6); 173.263(a)(10); 173.264(a)(14); 173.268(b)(3); 173.272(i)(21); 173.289(a)(4); 178.343-2(b); 178.343-5(b)(1)(i); and (b)(2)(i).

6. MODES OF TRANSPORTATION AUTHORIZED. Motor vehicle, and cargo vessel.

7. SAFETY CONTROL MEASURES.

a. Packaging prescribed is a non-DOT specification cargo tanks which meet the requirements of an MC-312 except for the following:

(1) Lining. Tanks do not have to be lined as required by §173.263(a)(10) and §178.343-2(b). However, unlined tanks are restricted for service under this exemption to materials as specified in Paragraph 3(a) or 3(c) above.

(2) Bottom outlets. Tanks may be equipped with bottom discharge outlets which do not incorporate internal shutoff valves as described by §178.343-5(b)(2). However, each such bottom outlet shall have an effective and reliable shutoff valve. The valve utilized must be in conformance with one of the three types described by Halliburton Drawing Nos. 281.55132, 283.52243, or 283.61201 on file with the OHMT. No part of any bottom discharge valving or piping may extend beyond or below the tank frame. Plugs, caps, or blind flanges shall be in place and tight against leakage.

b. Tanks operated under this exemption shall be one of the authorized designs on file with the OHMT and identified below (all measurements in inches):

General Outline Drawings

	Drawing No.	Outside Diameter	Length	Metal Thikness
(1)	DB-402-0000-01	54	408	3/8
(2)	DB-402-0005-01	45	72	1/4
(3)	DB-402-0006-02	54	144	1/4
(4)	DB-403-0002-03	60	115	1/4
(5)	DB-404-0001-01	45	150	3/16
(6)	DB-405-0001-03	45	108	3/16
(7)	DB-426-0001-01	45	144	3/8
(8)	DB-426-0003-01	60	70	3/8 or 3/16

c. Material described in paragraph 3(a) may also be transported in unlined DOT specification MC-312 steel cargo tanks.

8. SPECIAL PROVISIONS.

a. Each tank shall be visually inspected and hydrostatically retested at least once every year in accordance with §177.824(b) and (c)(4). Furthermore, each tank shall be ultrasonically tested once each year for metal thickness as prescribed by Halliburton Co.'s testing procedure dated February 15, 1978, on file with the OHMT. All test results must be kept on file by Halliburton Service at Duncan, Oklahoma for each tank while it is in service and for one year thereafter. Each tank that is found to have material thickness at any point less than that specified by §178.343-2, Tables I and II, shall be removed from service under this exemption.

b. Halliburton Company shall insure that the acid mixing operations at the various acid camps comply with the requirements of paragraph 3 and that the tanks are thoroughly cleaned in accordance with cleaning procedures outlined in Halliburton's letter of February 15, 1978, on file with the OHMT. This shall be accomplished through written company operating manuals, a system of company inspections, and appropriate supervision. Each unlined tank that will not be in use for more than 24 hours must be thoroughly cleaned after use.

c. Each tank shall be plainly marked on the right side near the front, in letters at least two inches high on contrasting background, "DOT-E 5403". Where tanks are mounted side-by-side, the left tank may be marked on the left side near the front. The certification plate shall also be marked "DOT-E 5403". Tanks and certification plates marked "DOT-SP 5403" prior to issuance of this exemption may be transported under the terms of this exemption.

d. This exemption authorizes Halliburton Co.'s privately owned and operated cargo tanks to be used only in support of oil well acidizing and industrial cleaning operations described in its letter of October 2, 1967 on file with the OHMT.

e. A copy of this exemption must be carried aboard each vessel used to transport packages covered by this exemption.

9. REPORTING REQUIREMENTS. Any incident involving loss of contents of the package or packaging failure must be reported to the OHMT as soon as practicable.

10. EXPIRATION DATE. January 31, 1992.

Issued at Washington, D.C.:

J. Suzanne Hedgepeth

MAR 21 1990

Alan I. Roberts
Director
Office of Hazardous Materials
Transportation

(DATE)

Address all inquiries to: Director, Office of Hazardous Materials Transportation, Research and Special Programs Administration, U.S. Department of Transportation, Washington, D.C. 20590. Attention: Exemptions Branch.

Dist: FHWA, USCG.