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July 1993



Guide to EPA Materials on Underground Storage Tanks



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Guide to EPA Materials on Underground Storage Tanks

**United States Environmental Protection Agency
Office of Underground Storage Tanks**

December 1992

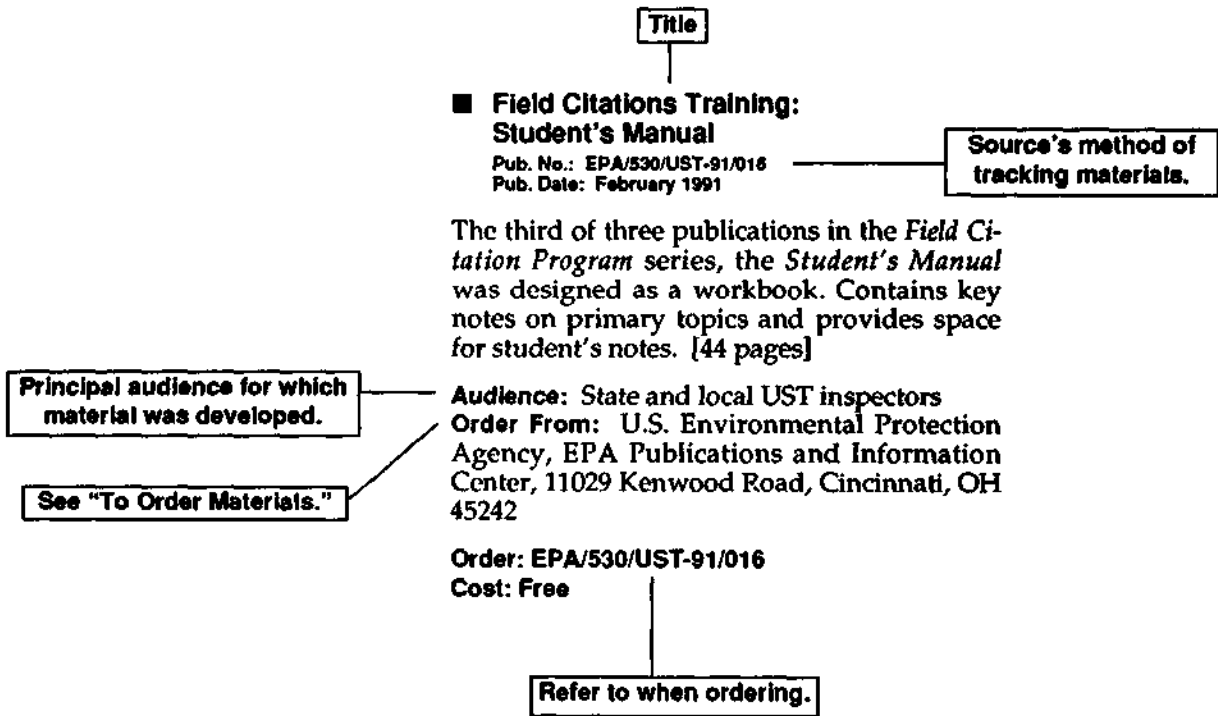
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The U.S. Environmental Protection Agency (EPA) Office of Underground Storage Tanks (OUST) developed the *Guide to EPA Materials on Underground Storage Tanks* (USTs) in response to requests for information about educational resources currently available on USTs. Designed for quick reference, the *Guide* contains abstracts, cost and ordering information, and other useful details on nearly 90 different titles. Titles referenced here include publications, videos, slideshows, and software packages which were funded wholly or in part by EPA through June 30, 1992, as well as selected industry publications that were referenced in federal UST technical regulations.

The *Guide* was developed for federal and state UST program officials.

Entries are divided into nine topical sections. Each entry is organized as shown below. A five-part index lists items alphabetically by source of purchase; subject; title; media (publication, video, slideshow, or computer software); and publication number.



Contact the following information outlets to order the materials listed in this guide. Materials are not generally available through the EPA OUST headquarters.

■ **Capital Presentations**
10 Post Office Road, Suite 2N, Silver Spring, MD 20910
301 588-9540

To Order: Provide title or order number. Visa and MasterCard accepted. Check or money order must be submitted with written request.

■ **Environmental Media Center**
P.O. Box 30212, Bethesda, MD 20814
800 522-0362 or 301 654-7141

To Order: Provide title. Visa and MasterCard accepted. Check or money order must be submitted with written request.

■ **National Audiovisual Center**
Attn: Customer Service, 8700 Edgeworth Drive,
Capitol Heights, MD 20743
301 763-1896

To Order: Provide title or order number. Visa and MasterCard accepted. Check or money order must be submitted with written request.

■ **National Ground Water Association**
P.O. Box 182039, Dept. 017, Columbus, OH 43218
614 761-1711

To Order: Provide title. Visa, MasterCard, and Discover Card accepted. Check or money order must be submitted with written request.

■ **New England Interstate Environmental Training Center**
Attn: Videos, 2 Fort Road, South Portland, ME 04106
207 767-2539

To Order: Provide title. Visa and MasterCard accepted. Check or money order must be submitted with written request.

■ **Superintendent of Documents**
U.S. Government Printing Office, Washington, D.C. 20402
202 783-3238

To Order: Provide title or order number. Visa and MasterCard accepted. Check or money order must be submitted with written request.

■ **TZ Communications**
P.O. Box 332, Holbrook, MA 02343

To Order: Provide title. Check or money order must be submitted with written requests. Price includes shipping and handling.

■ **U.S. Environmental Protection Agency**
EPA Publications and Information Center
11029 Kenwood Road, Cincinnati, OH 45242

To Order: Provide title and EPA publication number. Also available through the EPA RCRA/Superfund Hotline: 800 424-9346 (TDD for the hearing-impaired: 800 553-7672), Monday through Friday from 8:30 a.m. to 7:30 p.m. eastern time. Materials listed in this guide are free for UST program officials. Some limitations on quantity may apply.

Terms and acronyms appear throughout this guide. The most common are listed below. These definitions are not to be used as strict technical definitions for these terms. They are meant only to aid the reader in understanding the terms as they are used in the abstracts.

■ UST

Underground Storage Tank. For regulatory purposes, EPA defines an UST as a tank and any underground piping connected to the tank that has 10 percent or more of its volume (including pipe volume) beneath the surface of the ground. These tanks are used to store petroleum or certain hazardous chemicals. Generally, the requirements for both petroleum and chemical USTs are very similar.

Some tanks are not covered by these regulations:

- Farm and residential tanks holding 1,100 or fewer gallons of motor fuel used for non-commercial purposes.
- Tanks storing heating oil on the premises where it is stored.
- Tanks on or above the floor of underground areas, such as basements or tunnels.
- Septic tanks and systems for collecting storm water and wastewater.
- Flow-through process tanks.
- Tanks holding 110 or fewer gallons.
- Emergency spill and overfill tanks.

Other storage areas that might be considered "tanks" are also excluded. The regulations published in the *Federal Register* fully identify various tanks types and which requirements apply to them.

■ OUST

Office of Underground Storage Tanks. The program within EPA's Office of Solid Waste and Emergency Response that is responsible for developing and implementing UST regulations.

■ Subtitle I of RCRA

The section of the Resource Conservation and Recovery Act (RCRA) that required EPA to develop a comprehensive regulatory program for USTs storing petroleum or hazardous substances. Congress responded to the increasing threat to groundwater from leaking USTs by adding Subtitle I, which was passed as part of the Hazardous and Solid Waste Amendments of 1984. Congress directed EPA to publish regulations that would require owners and operators of USTs to prevent and detect leaks, and clean up leaks and spills. Subtitle I was amended in 1986 by the Superfund Amendments and Reauthorization Act (SARA). SARA created the Leaking Underground Storage Tanks Trust Fund and directed EPA to promulgate regulations requiring owners and operators to show financial responsibility for cleaning up releases and spills, and compensating third parties for damages resulting from UST releases.

■ **Corrective Action**

Steps (e.g., soil and groundwater treatment) required of UST owners and operators and cleanup contractors to clean up releases and spills; prevent further migration of contaminants; and to reduce health and safety threats posed by leaking USTs.

■ **Federal Register**

The document in which federal agencies publish for public record any regulatory action that may affect the regulated communities, including proposed, amended, and final rules.

■ **Financial Responsibility**

An owner or operator's demonstration of the availability of adequate resources—through insurance or some other means—to clean up a spill site, correct environmental damage, and compensate others for personal or property damage. Acceptable evidence of financial responsibility includes the possession of: commercial environmental impairment liability insurance; self-insurance; guarantees, surety bonds, or letters of credit; or the required amount in a trust fund administered by a third party.

■ **Site Assessment**

Procedure conducted at a site to investigate and confirm suspected releases; determine the extent of contamination; and to assess the effects on human health and the environment. This information is used to decide whether cleanup is needed, and, if necessary, the implementation of corrective action.

■ **Federal Register—Notification Requirements for Owners of Underground Storage Tanks; Final Rule. Part VI, 40 CFR Part 280**

Pub. No.: Vol. 50, No. 217
 Pub. Date: November 8, 1985

Owners are required to notify designated state agencies of the existence of their tanks. This provides the notification form to be used by petroleum and hazardous waste UST owners and operators to notify state officials of their tanks' existence. EPA prescribes the form of notice and the information it must

contain. Provides detailed background information. [19 pages]

Audience: State and local UST program officials; UST owners and operators
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-Z-92-501
Cost: Free

■ **Federal Register—Hazardous Waste; Interim Prohibition Against Installation of Unprotected Underground Storage Tanks; Imperative Rule. Part IV, 40 CFR Part 280**

Pub. No.: Vol. 51, No. 107
 Pub. Date: June 4, 1986

This edition summarizes interim requirements of Subtitle I of RCRA. The interpretive rule states that USTs installed between May 7, 1985, and the effective date of new standards are required to be declared to EPA. Reviews performance standards and clarifies compliance obligations of UST owners and

operators. Also alerts owners and operators to the circumstances that prompt EPA to proceed with enforcement for noncompliance. [3 pages]

Audience: State and local UST program officials; UST owners and operators
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-Z-92-601
Cost: Free

■ **Federal Register—Underground Storage Tanks; Technical Requirements and State Program Approval: Final Rules. Part II, CFR Parts 280 and 281**

Pub. No.: Vol. 53, No. 185
 Pub. Date: September 23, 1988

Contains the final rule on the UST technical requirements and on state program approval. First proposed in 1987, these technical requirements address federal standards for leak detection and prevention, and corrective action for USTs that fall under section 9003 of RCRA. Final financial responsibility requirements not included. Also establishes final

requirements for approval of state UST programs to operate in place of the federal UST program. [165 pages]

Audience: State and local UST program officials; UST owners and operators
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-Z-92-801
Cost: Free



■ **Federal Register—Underground Storage Tanks Containing Petroleum—Financial Responsibility Requirements and State Program Approval Objective; Final Rule. Part II, 40 CFR Part 280**

Pub. No.: Vol. 53, No. 207
 Pub. Date: October 26, 1988

This rule establishes requirements for demonstrating financial responsibility for taking corrective action and compensating third parties for bodily injury and property damage caused by sudden and nonsudden accidental releases arising from the operation of USTs

containing petroleum. EPA also published in this document, for purposes of state program approval, a federal technical objective for financial responsibility of owners and operators of petroleum UST systems. [61 pages]

Audience: State and local UST program officials; UST owners and operators
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-Z-92-802
Cost: Free

■ **Federal Register—Approval and Promulgation of Implementation Plans. Interim Final Rule. 40 CFR Part 280**

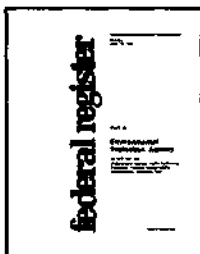
Pub. No.: Vol. 54, No. 216
 Pub. Date: November 9, 1989

EPA is interpreting required language of endorsements to existing insurance policies under 40 CFR 280.97(b)(1) and certificates of insurance under 40 CFR 280.97(b)(2). The amendments bring the financial responsibility requirements into greater conformity with insurance industry practices concerning can-

cellation and extended reporting and thus avoid possible impacts on the availability and affordability of such insurance.

Audience: State and local UST program officials; UST owners and operators
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-Z-92-901
Cost: Free



■ **Federal Register—Underground Storage Tanks Containing Petroleum—Financial Responsibility Requirements; Proposed Rule. Part II, 40 CFR Part 280**

Pub. No.: Vol. 55, No. 117
 Pub. Date: June 18, 1990

Proposes financial responsibility requirements applicable to local governmental owners and operators of USTs containing petroleum. This proposal would establish four alternative mechanisms for use by local governments to demonstrate financial responsibility for taking corrective action and

compensating third parties for bodily injury and property damage caused by sudden and nonsudden accidental UST releases. [27 pages]

Audience: State and local UST program officials; local governments; UST owners and operators
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-Z-92-001
Cost: Free

■ **Federal Register—Underground Storage Tanks Containing Petroleum; Financial Responsibility Requirements; Final Rule. 40 CFR Parts 280 and 281**

Pub. No.: Vol. 55, No. 211
 Pub. Date: October 31, 1990

Modifies the compliance dates under 40 CFR 280.91(d) and (e). Under the modification, petroleum marketing firms owning 1 to 12 USTs at more than one facility or fewer than 100 USTs at a single facility or non-marketers with net worth of less than \$20 million are required to comply with the requirements of 40 CFR part 280 subpart H—Financial Responsibility—by October 26, 1991. Extends the

deadline from the previous date of October 26, 1990. Subsection (e) extends the financial responsibility compliance date for local governments until one year from the date of promulgation of additional mechanisms for use by local governments.

Audience: State and local UST program officials; UST owners and operators; local government

Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-Z-92-002
Cost: Free

■ **Federal Register—Underground Storage Tanks Containing Petroleum—Financial Responsibility Requirements; Final Rule. 40 CFR Part 280**

Pub. No.: Vol. 56, No. 246
 Pub. Date: December 23, 1991

Modifies the compliance dates under 40 CFR 280.91(d). Under the modification, all petroleum marketing firms owning 1 to 12 USTs at more than one facility or fewer than 100 USTs at a single facility or non-marketers with net worth of less than \$20 million are required to comply with the requirements of 40 CFR part

280 subpart H—Financial Responsibility—by December 31, 1993. Extends the deadline from the previous date of October 26, 1991. [4 pages]

Audience: State and local program officials; UST owners and operators

Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-Z-92-102
Cost: Free

■ **Hazardous Substance List For Regulation of Underground Storage Tanks Under Resource Conservation and Recovery Act, Subtitle I**

Pub. No.: EPA 510-B-92-203
 Pub. Date: October 1988

Comprehensive seven-page list of hazardous substances which when stored in USTs would be regulated under Subtitle I of RCRA. Corresponding Chemical Abstracts Service Registry Numbers included. [7 pages]

Audience: UST owners and operators; state and local UST program officials

Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-B-92-203
Cost: Free

■ **Report to Senate Committee on Appropriations Regarding Underground Storage Tanks Financial Responsibility and Related Issues**

Pub. No.: EPA 510-R-92-201
Pub. Date: April 1992

In September 1990, the Senate Committee on Appropriations directed EPA to report on UST owners and operators' progress toward meeting financial responsibility requirements. This easy-to-read report presents EPA's findings, and states legislative and regulatory recommendations concerning federal regulations for UST systems. Primary topics are: compliance with the financial responsibility

requirements; their impact on various industry sectors; and methods of reducing the financial impact of the UST program on the regulated community. Appendices document the economic analyses and other supporting material used in preparing this report. [132 pages]

Audience: U.S. Congress
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-R-92-201
Cost: Free

■ **Subtitle I—Regulation of Underground Storage Tanks. Definitions and Exemptions**

Pub. No.: EPA 510-K-92-401
Pub. Date: 1984

Subtitle I of RCRA provides the statutory basis for EPA's regulation of the UST community. Issues addressed in Subtitle I range from tank classification to state UST program approval requirements. [10 pages]

Audience: UST owners and operators; state and local UST program officials; Environmental Protection Agency
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-K-92-401
Cost: Free

■ **Underground Heating Oil and Motor Fuel Tanks Exempt from Regulation Under Subtitle I of The Resource Conservation and Recovery Act—Executive Summary**

Pub. No.: EPA 510-R-92-002
Pub. Date: May 1990

USTs that store heating oil for on-site consumption and those that store motor fuel for non-commercial farm or residential use are two of the systems exempt from Subtitle I of RCRA. Nevertheless, the 1984 Amendments to RCRA require EPA to report on whether these systems should fall under Subtitle I pro-

visions. From study approach to major findings to EPA's recommendations, this executive summary to Congress leads readers through the issue, explaining why the systems should remain exempt and how problems should be addressed. [21 pages]

Audience: U.S. Congress
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-R-92-002
Cost: Free

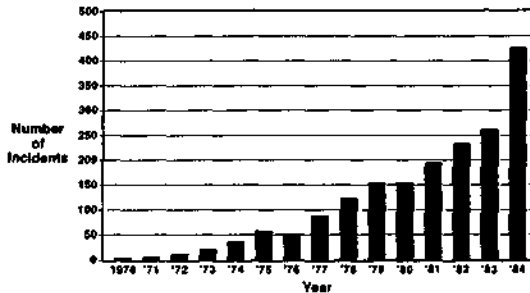
■ **Underground Heating Oil and Motor Fuel Tanks Exempt from Regulations Under Subtitle I of RCRA—Backup Report**

Pub. No.: EPA 510-R-92-003
 Pub. Date: May 1990

Extensive technical documentation for the executive summary of the same name. [192 pages]

Audience: U.S. Congress; state and local program officials; UST owners and operators
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Exhibit 3-2
 Number of Reported Releases from Exempt Heating Oil and Motor Fuel Tank Systems



Order: EPA 510-R-92-003
Cost: Free

■ **Dollars & Sense**

Pub. No.: EPA/530/UST-88/005
 Pub. Date: September 1988

Plain-English summary of UST owners' and operators' financial responsibilities under federal UST regulations. Includes definition of financial responsibility—evidence of owners' and operators' ability to ensure, through insurance or other means, that they can pay for cleanups and third-party damages associated with a release. [15 pages]

Audience: UST owners and operators; state and local UST program officials
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA/530/UST-88/005
Cost: Free

■ **Tank Talk: The New National Rules**

Pub. No.: EPA 510-F-92-102
Pub. Date: November 1988

This 30-minute slide presentation describes the federal rules for USTs and piping systems used for petroleum storage. Shows the national minimum requirements for equipment design and installation methods that reduce the likelihood of leaks, and highlights rules for leak detection and monitoring of systems. Also covers rules for reporting, investigating and cleaning up leaks and clo-

sure for tank systems. 70 slides, 20-page script, and 30-minute narrated audio tape.

Audience: State and local UST program officials; UST owners and operators; contractors and consultants

Order From: Capital Presentations, 10 Post Office Road, Suite 2N, Silver Spring, MD 20910, 301 588-9540

Order: By title
Cost: \$90

■ **Technical Standards And Corrective Action Requirements for Owners and Operators of Underground Storage Tanks: Final Amendment of the Overfill Requirements, Environmental Fact Sheet**

Pub. No.: EPA 510-F-92-101
Pub. Date: August 1991

Overfilling USTs is a common source of petroleum releases. To reduce these releases, federal regulations require UST owners and operators to use spillage prevention equipment and procedures during each tank in-filling operation. This technical fact sheet summarizes the overfill prevention require-

ments and outlines how the Final Amendment adds to them. [11 pages]

Audience: General public; state and local UST program officials; UST owners and operators; contractors and consultants

Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-F-92-101
Cost: Free

■ **Normas Y Procedimientos Para TSA**

Pub. No.: EPA/530/UST-90/001
Pub. Date: March 1990

The Spanish version of *Musts for USTs*. [41 pages]

Audience: General public; state and local program officials; UST owners and operators

Order From: Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, 202 783-3238

Order: By title
Cost: \$2.50



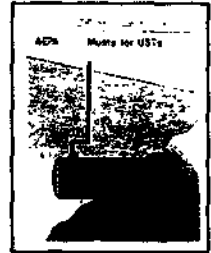
■ **Musts for USTs**

Pub. No.: EPA/530/UST-89/011
Pub. Date: August 1989

What are the technical requirements for USTs? Why are they needed? This plain-English summary of UST technical regulations is intended for UST owners and operators and explains why tank systems leak; what leaks can mean to health, safety, and the environment; and how the regulations face those issues. [41 pages]

Audience: General public; UST owners and operators; state and local program officials
Order From: Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, 202 783-3238

Order: 055-000-00294-1
Cost: \$2.50



■ **Funding Options For State and Local Governments**

Pub. No.: EPA/530/UST-88/002
 Pub. Date: August 1988

Financing an UST program poses many challenges to state and local UST program officials. This handbook can help program officials determine whether their current funding is sufficient or if more or different funding sources are necessary. It discusses working with legislative and executive

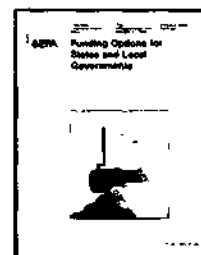
branches, general characteristics of funding mechanisms, funding used by other programs, and tips on starting an UST program. [41 pages]

Audience: State and local UST program officials

Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA/530/UST-88/002

Cost: Free



■ **Preventing Leaking Underground Storage Tanks: Using Government Assistance Programs to Finance Tank Systems Improvements**

Pub. No.: EPA 510-K-92-201
 Pub. Date: 1990

Compliance with tougher federal UST standards will provide long-term health, safety, environmental, and economic benefits. But compliance can be expensive. Without assistance, many small tank owners and operators will not meet the new standards and may be forced to close. EPA and the Northeast-Midwest Institute, a bipartisan non-profit group

that supports regional economic growth, discuss creative ways in which state and local governments can offer financial assistance to qualified UST owners and operators. [35 pages]

Audience: State and local UST program officials; U.S. Congress; general public

Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-K-92-201

Cost: Free

■ **State Program Approval Handbook**

Pub. No.: EPA 500-B-92-004
Pub. Date: May 1992

Developed for state and EPA officials who are building and evaluating state UST programs to be approved to operate in lieu of the federal UST program. Provides in plain English further explanation and discussion to increase the states' understanding of how to apply for state program approval. [114 pages]

Audience: State UST program officials; EPA Regional UST program officials
Order From: U.S. Environmental Protection Agency, EPA Public Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 500-B-92-004
Cost: Free

■ **Suggested Procedures for Review of State UST Applications**

Pub. No.: EPA 500-B-92-005
Pub. Date: May 1992

Streamlines review and approval of state programs. Ways to achieve optimal interaction between state governments and EPA regional offices. Hints for overcoming obstacles to approval. [77 pages]

Audience: State UST program officials; EPA Regional UST program officials
Order From: U.S. Environmental Protection Agency, EPA Public Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 500-B-92-005
Cost: Free

■ **Trade Show How-Tos, with New Product News Flyer**

Pub. No.: EPA 510-F-92-901
Pub. Date: December 1989

Trade shows can provide one-stop shopping for the latest leak-detection, monitoring, and cleanup technology. Inspectors, contractors and consultants, and UST owners and operators can see equipment, compare prices and features, and ask questions at one convenient location. This flyer offers tips on planning and conducting trade shows with UST and

national trade association conferences. [7 pages]

Audience: State and local UST program officials
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-F-92-901
Cost: Free

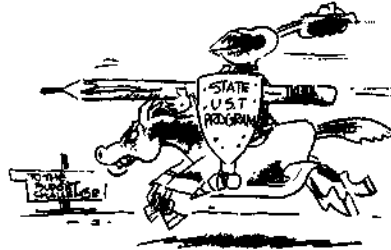
■ **UST Work-A-Budget
(Cost of Running a State Program)**

Pub. No.: EPA 510-K-92-816
Pub. Date: June 1989

This easy-to-read kit can assist in planning a state UST program budget. Includes case histories of program costs in six states, tips on how to stretch dollars, worksheets for estimating a budget, and an order form for EPA's budget-estimating software, USTBUD.

Audience: State and local UST program officials

Order From: U.S. Environmental Protection Agency, EPA Publications and Information



Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-K-92-816

Cost: Free

■ **ABELPRO User's Manual (No. 2)**

Pub. No.: EPA 510-B-92-702
 Pub. Date: September 30, 1987

ABELPRO makes it easier to determine an UST facility owner's ability to pay civil penalties or to invest in pollution-control equipment. The software uses, as input, basic financial data on a firm and analyzes the firm's financial health. The manual provides step-by-step instructions on how to use ABELPRO and interpret results. Extensive

understanding of economics or finance is not required. [98 pages]

Audience: State and local UST program officials

Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-B-92-702

Cost: Free

■ **Using ABELPRO in UST Cost Recovery Cases**

Pub. No.: EPA 510-F-92-003
 Pub. Date:

Save your financial analyst's time and your program's money with ABELPRO, a spreadsheet computer program adapted from the EPA ability-to-pay computer program, ABEL. ABELPRO helps state UST program officials determine a tank owner's ability to pay cleanup costs. This plain-English, one-page fact sheet explains the program's basis,

advantages, and limitations as a tool for financial projections. [2 pages]

Audience: State and local UST program officials; general public

Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-F-92-003

Cost: Free

■ **Building State Compliance Programs**

Pub. No.: EPA/530/UST-88/003
 Pub. Date: August 1988

Developing or upgrading a state UST compliance program is made easier with these guidelines. They cover monitoring, enforcement, and outreach activities. Each aspect of the compliance process is examined and illustrated by examples of efficient programs across the U.S. Regardless of the diversity of your regulated community or the size of your

budget, this manual is designed to offer effective, economical solutions. [152 pages]

Audience: State and local UST program officials

Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA/530/UST-88/003

Cost: Free



■ **How to Develop Your Own UST Field Citation Program**

Pub. No.: EPA/530/UST-91/014
Pub. Date: February 1991

Underground storage tank program officials face enormous challenges in responding to violations. This handbook was developed to help UST program officials develop resource-efficient enforcement programs. Like a traffic ticket, the field citation addresses a clear-cut violation, requires the violator to correct the

violation, often carries a penalty, and provides for appeal. [77 pages]

Audience: State and local UST program officials; EPA Regional UST program officials
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA/530/UST-91/014
Cost: Free

■ **Field Citations Training: Instructor's Manual**

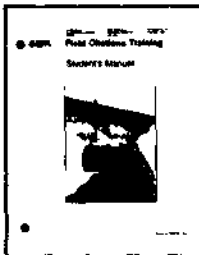
Pub. No.: EPA/530/UST-91/015
Pub. Date: February 1991

Inspectors need to be trained in how to issue field citations, an enforcement tool similar to traffic tickets. A companion to *How to Develop Your Own UST Field Citation Program*, this guide can be part of an overall training course, but also can stand alone. Contains basic materials to be covered in the course and specific instructions for class activities that will reinforce training concepts and

encourage class participation. Also contains handouts and suggestions for program-specific materials that could be developed on the state or local level. [140 pages]

Audience: State and local UST program officials
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA/530/UST-91/015
Cost: Free



■ **Field Citations Training: Student's Manual**

Pub. No.: EPA/530/UST-91/016
Pub. Date: February 1991

The third of three publications in the *Field Citation Program* series, the *Student's Manual* was designed as a workbook. Contains key notes on primary topics and provides space for student's notes. [44 pages]

Audience: State and local UST inspectors
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA/530/UST-91/016
Cost: Free

■ **Searching for An Honest Tank... A Guide to UST Facility Compliance Inspections—Video and Companion Booklet**

Pub. No.: video, 510-V-92-101;
booklet, EPA 510-K-92-101
Pub. Date: May 1991

This 33-minute video covers all major elements of facility compliance inspection, including inspector's priorities and protocol, equipment, documentation and record-keeping procedures, the inspection itself, follow-up and enforcement procedures, inspector training, and health monitoring for

UST inspectors. Easy-to-read companion booklet with checklists and references also available. [33 minutes]

Audience: State and local UST inspectors
Order From: New England Interstate Environmental Training Center, 2 Fort Road, South Portland, ME 04106, 207 767-2539

Order: By title
Cost: \$40 prepaid for set, \$10 prepaid for loan of set for 1 week; \$35 prepaid for video, \$5 prepaid for booklet



■ **EPA Form: Notification for Underground Storage Tanks**

Pub. No.: EPA Form 7530-1
Pub. Date: September 1988

The purpose of the EPA notification program is to inventory tanks that store, or have stored, petroleum and hazardous substances. The inventory permits state and local UST program officials to locate and evaluate the USTs and to develop a database for scheduling compliance inspections. This form is critical to the notification program; it defines

an UST and explains why owners and operators must notify state and local program officials of the tanks' existence as well as the consequences of failure to notify. [5 pages]

Audience: UST owners and operators; state UST program officials
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA Form 7530-1
Cost: Free

■ **Analysis of Manual Inventory Reconciliation—Executive Summary, Draft**

Pub. No.: EPA 510-S-92-802
 Pub. Date: March 1988

How accurate is your daily UST record-keeping? Will the proposed federal regulations for manual inventory record-keeping help you detect a leak? This technical study, believed to be the largest of its kind as of 1988, looked into the record-keeping accuracy of 586 USTs in 34 states. Learn how the leak detection

capabilities were assessed, and what the results were. [5 pages]

Audience: State and local UST program officials; UST owners and operators
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-S-92-802
Cost: Free

■ **Analysis of Static Tank Testing As a Leak Detection Technique for Used Oil Tanks At Retail Outlets: Final Report**

Pub. No.: EPA 510-R-92-701
 Pub. Date: February 1987

How do you test for leaks at used oil tanks at retail outlets without costing the retailer business? This technical report offers evidence that static-tank testing—conducted with the consideration of the specific needs of this type of UST—is the best leak detection method available. Discusses factors affecting accuracy of inventory control, temperature effects, and

automatic tank gauges. Prepared by the Radian Corporation for the American Petroleum Institute. [40 pages]

Audience: State and local UST program officials; UST owners and operators; contractors and consultants
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-R-92-701
Cost: Free

■ **Common Questions on Leak Detection**

Pub. No.: EPA 601/5-89/916
 Pub. Date: May 1989

Easy-to-read question-and-answer format covers the most frequently asked questions about leak detection, based on surveys among state and EPA Regional UST program officials. Answers reflect federal requirements. Covers groundwater monitoring, vapor monitoring, secondary containment with interstitial monitoring and automatic tank gauging systems. [18 pages]

Audience: State and local UST program officials; UST owners and operators
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 601/5-89/916
Cost: Free

■ **Development of Procedures to Assess the Performance of External Leak Detection Devices—Draft**

Pub. No.: EPA 510-S-92-801
Pub. Date: 1988

Though hydrocarbons from UST systems are a known source of environmental contamination, there were no standard test procedures for measuring the accuracy of the equipment that monitors them. This technical report fills the void, offering a basis for developing standard test procedures. The consultants who conducted this report contend that proper UST system design, operation and maintenance,

alongside a leak detection program, can reduce hydrocarbon releases and their effects. [49 pages]

Audience: State and local UST program officials; UST owners and operators; contractors and consultants; and equipment vendors
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-S-92-801
Cost: Free

■ **EPA Clarifies Testing Requirements for UST Automatic Line Leak Detectors—Environmental Fact Sheet**

Pub. No.: EPA 510-F-92-201
Pub. Date: March 1992

Fact sheet clarifies EPA requirements for the annual testing of line leak detectors (LLDs). EPA requires the tests to ensure that LLDs are properly installed and maintained, have not been tampered with, and are operating in accordance with the manufacturer's requirements. Clarification was necessary because of disagreement in the leak detection community over whether the EPA test must evaluate

the system's operability or whether it must be a qualitative test. Provides background and discussion of the issue, and a contact number for more information.

Audience: State and local UST program officials; UST owners and operators
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-F-92-201
Cost: Free

■ **Evaluation of U-Tube Underground Tank Systems for Soil Vapor Testing**

Pub. No.: EPA 510-K-92-811
Pub. Date: March 1988

The U-Tube is ordinarily installed for liquid leak detection, but this study shows how U-Tubes are used as vapor monitoring devices. Suffolk County, New York provided an excellent test site: it has strict UST regulations; a large number of USTs with U-Tube monitoring systems; requires an alarm level for vapor

monitoring systems; and extensive records of USTs. Comprehensive data were collected on each site. [28 pages]

Audience: State and local UST program officials; UST owners and operators
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-K-92-811
Cost: Free

■ **Evaluation of Volumetric Leak Detection Methods for Underground Storage Tanks**

Pub. No.: EPA/600/2-88/068a
 Pub. Date: February 1988

EPA evaluated the performance of commercial volumetric test methods for the detection of small leaks in gasoline USTs. Summary of EPA's research and recommendations for improvement. Technical information to help users select suitable methods for testing the integrity of USTs. [119 pages]

Audience: State and local UST program officials; contractors and consultants
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA/600/2-88/068a
Cost: Free

■ **Leak Lookout**

Pub. No.: EPA/530/UST-88/006
 Pub. Date: August 1988

Since 25 percent of USTs may be leaking, UST owners and operators share the responsibility of aggressively monitoring their equipment. The easy-to-read *Leak Lookout* appeals to owners and operators as citizens—addressing the health and safety hazards of leaks and spills, and as business people—pointing out the financial burden of lost profits and potentially heavy fines. Readers understand why they

should be concerned about leaks, and how to carry out their own leak detection plan. [15 pages]

Audience: UST owners and operators; state and local UST program officials; general public

Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA/530/UST-88/006
Cost: Free



■ **Fuel Vapor Background Concentration Measurement And Tracer Testing in Underground Storage Tank Backfill**

Pub. No.: EPA 510-K-92-812
 Pub. Date: March 1988

More data was needed on fuel vapor concentrations in tank backfill, and methods for measuring the efficiency of vapor monitoring systems needed to be developed. Fuel vapor concentrations were measured in UST backfill and tracer testing methods were developed to determine the efficiency of vapor monitoring wells at gasoline and diesel USTs at 12 sites in San Jose, California. Conducted at service stations and an emergency power facility, these

technical studies revealed why wells should be perforated over the entire depth of the backfill and why tracer testing can be used successfully to monitor releases from tanks and pipelines. [22 pages]

Audience: State and local UST program officials; UST owners and operators; contractors and consultants

Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-K-92-812
Cost: Free

■ **Free-Product Release Detection for Underground Storage Tank Systems: Volumes I and II**

Pub. Nos.: Volume I, EPA 510-K-92-813;
Volume II, EPA 510-K-92-814
Pub. Date: February 1988

Several technical studies are available on the use of monitoring wells to detect release of free product into groundwater. This two-volume set is among the first to propose using monitoring wells to detect or monitor lighter-than-water petroleum products. *Volume I* deals primarily with the limitations of wells for detecting releases. *Volume II* profiles the Florida UST program, which successfully uses wells to detect and monitor releases. An

excellent guide to predict, recognize, and avoid potential problems associated with using wells. [Volume I, 33 pages; Volume II, 43 pages]

Audience: UST owners and operators; contractors and consultants; state and local program officials

Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: Volume I, EPA 510-K-92-813;

Volume II, EPA 510-K-92-814

Cost: Free

■ **Straight Talk on Leak Detection with Joe Thursday, Leak Detective—Video**

Pub. No.: EPA 510-V-92-001
Pub. Date: October 1990

Join Joe Thursday, Leak Detective, for a fast-paced, entertaining overview of leak detection technologies and special requirements for piping systems. A 25-minute video was developed for UST program officials who need materials to dispel confusion among owners and operators about leak detection.

Includes a 5-minute segment in which owners discuss problems in following UST regulations. Companion booklet available. [29 minutes]

Audience: State and local UST program officials; UST owners and operators

Order From: Environmental Media Center, P.O. Box 30212, Bethesda, MD 20814, 301 654-7141 or 800 522-0362

Order: By title

Cost: \$40

■ **Straight Talk on Tanks: A Summary of Leak Detection Methods for Petroleum Underground Storage Tank Systems**

Pub. No.: EPA 530/UST-90/012
Pub. Date: November 1989

Easy-to-read booklet that complements the video, *Straight Talk on Leak Detection with Joe Thursday, Leak Detective*. Answers to questions about leak detection methods, including: "Which methods should I use?" Regulatory requirements for leak detection and summary explanations of leak detection methods, including groundwater monitoring, vapor

monitoring, secondary containment with interstitial monitoring, and automatic tank gauging systems. Also lists state UST program offices. [15 pages]

Audience: UST owners and operators; state and local UST program officials

Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 530/UST-90/012

Cost: Free

■ **Research For Abatement of Leaks from Underground Storage Tanks Containing Hazardous Substances—Draft Final Report**

Pub. No.: EPA 510-R-92-801
 Pub. Date: February 1988

The importance of backfill and external leak detection sensors is reinforced by tests conducted with a three-dimensional groundwater flow model. This highly technical report shows the transport of hydrocarbon vapors in the backfill soil around leaking USTs. Sensors can detect high-vapor concen-

trations and diffusion coefficients in gasoline embedded in the appropriate type of backfill, revealing leaks before the substances enter the groundwater supply. [25 pages]

Audience: UST state and local program officials; contractors and consultants
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-R-92-801
Cost: Free

■ **Review of Effectiveness of Static Tank Testing**

Pub. No.: EPA 510-K-92-810
 Pub. Date: April 1988

This technical analysis of *Static Tank Testing as a Leak Detection Technique for Used Oil Tanks at Retail Outlets* addresses two primary causes of error in static tank testing and recommends ways to avoid them. One cause is the standard deviation of stick reading. The second primary cause for error is the incorrectly mea-

sured leak rate, the result of the stick reading error. Read how to correct these errors in estimating leak rates. [19 pages]

Audience: State and local UST program officials; owners and operators
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-K-92-810
Cost: Free

■ **Standard Test Procedures for Evaluating Leak Detection Methods—Entire Set**

Pub. No.: EPA/530/UST-90/004 through 010
 Pub. Date: March 1990

This seven-part series presents, in highly technical detail, procedures for testing the following types of leak detection:

- Automatic tank gauging systems
- Liquid-phase out-of-tank product detectors
- Non-volumetric tank tightness test methods
- Pipeline leak detection systems
- Statistical inventory reconciliation methods

- Vapor-phase out-of-tank detectors
- Volumetric tank tightness test methods

Audience: Leak detection equipment manufacturers; state and local UST program officials; UST owners and operators
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA/530/UST-90/004 through 010
Cost: Free

■ **Volumetric Tank Testing: An Overview**

Pub. No.: EPA/625/9-89/009
Pub. Date: April 1989

This technical report evaluates volumetric tank tests for detecting leaks in USTs; explains the accuracy requirements specified in EPA regulations about testing of USTs for leaks; and presents information to help the reader select a volumetric tank method. [37 pages]

Audience: State and local UST program officials; UST owners and operators

Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA/625/9-89/009

Cost: Free

■ **Introduction to Leak Detection: Understanding Federal Release Detection Requirements and Acceptable Release**

Pub. No.: 500/B-92/001a and b
Pub. Date: April 1992

Three-part training package offers UST program officials' answers to basic questions about leak-detection requirements and acceptable leak-detection methods. *Student's Manual* provides basic text, hard copies of slides, glossary of leak detection terms, and space for notes. *Instructor's Manual* duplicates *Student's Manual* text and includes teaching tips and classroom exercises that incorporate

the accompanying slides. Set of 269 photographic, graphic, and text slides numbered by corresponding chapter for quick reference. Manuals are printed on camera-ready paper for reproduction.

Audience: State and local UST program officials; EPA Regional UST program officials
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: 500/B-92/001a and b

Cost: Free

■ **Processes Affecting Subsurface Transport of Leaking Underground Tank Fluids**

Pub. No.: EPA 600-S-87-005
 Pub. Date:

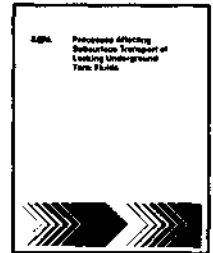
The need for more information on the leak-monitoring strategies of UST facilities increases as public awareness of groundwater contamination grows. This technical report focuses on how leaking fluids affect the accuracy of detection strategies. Common detection strategies include testing the tank and the soil and waters next to the tank. But liquid sampling alone is not enough: vapor transport, fluid interactions with soil and

microbes, and other activity in the subsurface may affect the accuracy of monitoring systems. Here's what to consider when evaluating your UST leak-monitoring strategy. [55 pages]

Audience: State and local UST program officials; UST owners and operators; contractors and consultants

Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 600-S-87-005
Cost: Free



■ **Oh No! Petroleum Leaks and Spills: What Do You Do?**

Pub. No.: EPA/530/UST-88/004
 Pub. Date: December 1989

Steps to be taken once a spill is discovered are explained simply and clearly to retail gas station owners and operators. Essential information about the prospect of a cleanup in easy-to-understand text and attractive illustrations. Addresses reasons to be concerned, reporting requirements, the cleanup process, and where to get more information. An excellent introduction to the corrective action process and a useful public information tool. [21 pages]

Audience: General public; UST owners and operators, primarily gas station owners and operators

Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA/530/UST-88/004
Cost: Free



■ **HyperVentilate: A Software Guidance System Created For Vapor Extraction Systems**

Pub. No.: EPA 500-C-B-92-001
Pub. Date: June 1992

Guidance system for use at contaminated sites using soil venting. Proven teaching and screening tool for environmental professionals at all technical levels. Version 1.01 for the Apple Macintosh (Plus, SE, Classic, LC, II, Portable, Powerbook, or Quadra) equipped with at least 1 MB RAM (2 MB preferred) and the Apple HyperCard program (v.2.0 or

greater). An IBM-PC-compatible version is being tested, and requires a 386 processor 2 MB RAM, Microsoft Windows 3.x, and Spinaker PLUS software. EPA will not update or provide technical support for this software.

Audience: State and local UST program officials; contractors and consultants

Order From: Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, 202 783-3238

Order: EPA 500-C-B-92-001
Cost: \$17

■ **Petroleum Leaks Underground—Video**

Pub. No.: EPA 510-V-92-201
Pub. Date: April 1992

Successful site assessment and cleanup depend on a clear understanding of how contamination spreads. This two-part video shows how liquids and vapors move through soil and why early response is important. *How Liquids Move* (17 minutes) describes how variation in soil types and soil porosity affects speed and distance of contamination. *How*

Vapors Move (14 minutes) describes the effect of vapor pressure on vapor spread and ability to measure contaminants. [27 minutes]

Audience: State and local UST inspectors; contractors and consultants

Order From: Environmental Media Center, P.O. Box 30212, Bethesda, MD 20814, 301 654-7141 or 800 522-0362

Order: By title
Cost: \$75

■ **Petroleum Tank Releases Under Control: A Compendium of Current Practices for State UST Inspectors**

Pub. No.: EPA/530/UST-89/010
Pub. Date: June 1989

General cleanup information based on standard engineering practices to train new UST inspectors and provide alternatives for experienced ones. The information is broad enough to be used by states regardless of their specific requirements. Tips on initial

response and cleanup as well as steps to follow under conditions of minimal soil contamination, extensive soil contamination, and groundwater contamination. [85 pages]

Audience: State and local UST program officials

Order From: Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, 202 783-3238

Order: 055-000-00277-1
Cost: \$8.50

■ **Soil-Gas Sensing for Detection and Mapping of Volatile Organics**

Pub. No.: EPA 510-K-92-701
Pub. Date: 1987

Vapor monitoring is a proven means of effectively determining the presence and movement of contaminants in the subsurface. This 1987 compilation contains all pertinent information on the role of soil-gas sensing in the detection of subsurface organic contaminants. Originally an EPA report prepared by

the Environmental Research Center at the University of Nevada, Las Vegas, and Radian Corporation. [260 pages]

Audience: State and local UST program officials; contractors and consultants
Order From: National Ground Water Association, P.O. Box 182039, Dept. 017, Columbus, OH 43218, 614 761-1711

Order: TO49
Cost: \$35 members; \$43.75 non-members

■ **What Do We Have Here? An Inspector's Guide to Site Assessment at Tank Closure—Video and Companion Booklet**

Pub. No.: Video, EPA 510-V-92-006;
booklet, EPA 510-K-92-006
Pub. Date: March 1990

As tanks are replaced or removed in response to tougher regulations, site inspection at tank closure is crucial for identifying and correcting environmental problems. Though not a site assessment handbook, this comprehensive overview of the tank closure process was developed as a training guide for inspectors. Also provides useful information for tank owners and contractors and consultants. Video includes: a 30-minute presentation on

site assessment at tank closure; a 14-minute overview of field testing instruments; and a 7-minute presentation on soil and water sampling. Ideal for training inspectors. [Video, 51 minutes; booklet, 33 pages]

Audience: State and local UST inspectors; UST owners and operators; contractors and consultants

Order From: New England Interstate Environmental Training Center, 2 Fort Road, South Portland, ME 04106, 207 767-2539

Order: By title
Cost: \$35 for set; \$10 prepaid for loan of set for 1 week; \$30 prepaid for video, \$5 prepaid for booklet



■ **Survey of State Programs Pertaining to Contaminated Soils**

Pub. No.: EPA 510-K-92-809
Pub. Date: March 1988

What is considered contaminated soil? How do you deal with it? This highly technical, nationwide survey of UST officials covers policies and procedures about soils contaminated with petroleum and hazardous substances. The report's goal was to find solutions to these and other implementation problems. Key findings, presented in both administrative and technical contexts, consist

of: how UST leaks are classified as hazardous; how the determination is made and by whom; and what treatment is allowed or required. [27 pages]

Audience: State and local UST program officials; UST owners and operators
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-K-92-809
Cost: Free

■ **A Question of When—Video**

Pub. No.: EPA 510-V-92-802
Pub. Date: February 1988

Easy-to-follow video on general practices used while installing USTs. Note that specific installation activities are subject to state and local regulations. [37 minutes]

Audience: State and local UST program officials; UST installers; fire department personnel

Order From: TZ Communications, P.O. Box 332, Holbrook, MA 02343

Order: By title

Cost: \$30 prepaid plus \$3.55 shipping and handling

■ **Doing It Right—Video**

Pub. No.: EPA 510-V-92-801
Pub. Date: 1988

This two-part tape demonstrates safe and proper UST installation procedures for tanks and for both steel and fiberglass piping. National Association of Government Communicators Honorable Mention award winner. [39 minutes]

Audience: State and local UST program officials; UST installers; UST owners and operators

Order From: Environmental Media Center, P.O. Box 30212, Bethesda, MD 20814, 301 654-7141 or 800 522-0362

Order: By title

Cost: \$16

■ **Underground Storage Tanks:
Rest in Peace—Video**

Pub. No.: EPA 501-V-92-601
Pub. Date: March 1986

Video explains the overall installation process to help tank owners choose competent installation contractors and monitor installation. Slightly less technical than *A Question of When*. [37 minutes]

Audience: General public; UST owners and operators

Order From: TZ Communications, P.O. Box 332, Holbrook, MA 02343

Order: By title

Cost: \$30 plus \$3.55 shipping and handling

■ **Tank Closure Without Tears—Video and Companion Booklet**

Pub. No.: Video, EPA 510-V-92-817;
booklet, EPA 510-K-92-817
Pub. Date: May 1988

This video, developed to train inspectors, provides a general outline of safety and site assessment procedures at tank closures. Takes the viewer step-by-step through the inspector's major goals: identify contamination, ensure that abandoned tanks are cleaned or filled properly, and recognize potential dan-

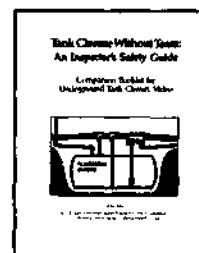
ger of explosion. Accompanied by an easy-to-read brochure that highlights the video's key messages. [30 minutes]

Audience: State and local UST inspectors; UST owners and operators

Order From: New England Interstate Environmental Training Center, 2 Fort Road, South Portland, ME 04106, 207 767-2539

Order: By title

Cost: \$35 prepaid for set, \$10 prepaid for loan of set for 1 week; \$30 prepaid for video, \$5 prepaid for booklet



■ **Health and Safety Training Video—5-Module Series**

Pub. No.: EPA 510-V-92-203
Pub. Date: June 1989

Hazards and suggested precautions for UST site inspectors. Each tape is about 30 minutes long and focuses on a health and safety issue: (1) fires and explosions; (2) toxicity of petroleum substances; (3) oxygen depletion and confined space safety; (4) personal protective

equipment; and (5) monitoring instruments and permissible exposure limits.

Audience: State and local UST program officials

Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-V-92-203

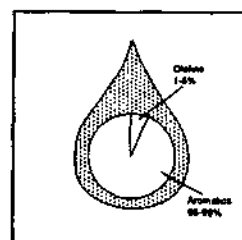
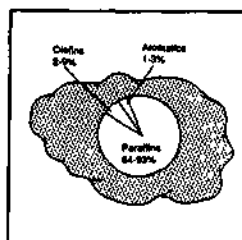
Cost: Free

■ **Leaking Underground Storage Tanks and Health: Understanding Health Risks From Petroleum Contamination**

Pub. No.: EPA 530/UST-91/018
Pub. Date: January 1992

Exposure to gasoline and benzene poses health risks. How serious? The answer depends on several factors: identifying who may be exposed to chemicals and how and assessing health effects associated with exposure. Not a formal risk assessment instrument. [19 pages]

Audience: State and local UST program officials



Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA/UST-91/018

Cost: Free

■ **Background Hydrocarbon Vapor Concentration Study on Underground Fuel Storage Tanks. Draft Final Report**

Pub. No.: EPA 510-R-92-802
 Pub. Date: February 1988

Federal regulations require effective UST internal and external leak detection methods. This technical report details the methodology and rationale for comparing soil gas levels around USTs at 27 service stations nationwide to the concentration levels in known contaminated soil. Explores methods for internal (inside-tank) and external detection

to determine whether an UST is leaking. Specifies site geology, hydrology, and climate. Comprehensive tables, figures, and appendices. [98 pages]

Audience: State and local UST program officials; contractors and consultants
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-R-92-802
Cost: Free

■ **Causes of Release From UST Systems—Report and Attachments**

Pub. Nos.: Report, EPA 510-R-92-702;
 Attachments, EPA 510-R-92-703
 Pub. Date: September 1987

Delivery piping releases and spills or overfills are the most common sources of releases. Equipment at the top of tanks leaks during overfills more frequently than do tanks and delivery piping. Untreated steel tanks fail primarily because of corrosion. Based on information from oil companies, regulatory agencies, equipment vendors, and contrac-

tors, this technical report and attachments summarize EPA's efforts to document the causes of releases. [Report, 34 pages; Attachments, 42 pages]

Audience: State and local UST program officials; UST owners and operators; contractors and consultants
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: Report, EPA 510-R-92-702;
 Attachments, EPA 510-R-92-703
Cost: Free

■ **Tank Corrosion Study**

Pub. No.: EPA 510-K-92-802
 Pub. Date: November 1988

Does corrosion affect larger tanks faster than smaller ones? Is internal corrosion as serious as external? Are tanks containing oil more susceptible to leaking than those that hold gasoline? This 19-month highly technical study of tanks removed from Suffolk County, New York facilities provides answers to these and other questions. Five hundred bare-steel tanks, from two to 70 years old, were

removed in response to stricter County regulations. Read the findings, observations, and conclusions about the effects of corrosion. [44 pages]

Audience: State and local UST program officials; UST owners and operators
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-K-92-802
Cost: Free

■ **Commitment to Cooperation:
Franchising the UST Program**

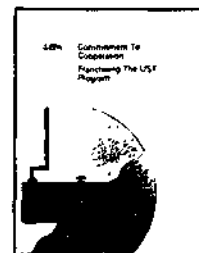
Pub. No.: EPA/530/UST-89/001
Pub. Date: August 1989

Understanding the national UST program's philosophy is essential to its success. *Commitment to Cooperation* explains the UST philosophy and management ideals and emphasizes the importance of localizing the issue of controlling leaking USTs. An impor-

tant document for state officials to distribute to staff or the public. [8 pages]

Audience: General public; state UST program officials; UST owners and operators
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA/530/UST-89/001
Cost: Free



■ **OUST Public Hearing Memo**

Pub. No.: EPA 510-F-92-701
Pub. Date: June 1987

EPA officials share information gathered at informal two-day public hearings in Dallas, San Francisco, and Washington, D.C. Summarizes the testimony of about 130 participants. Topics included financial responsibility, technical standards, corrective action, and definitions and legal issues.

Audience: General public; EPA Regional UST program officials
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-F-92-701
Cost: Free

■ **LUSTLine Bulletin**

Pub. No.: Latest Available Issue
Pub. Date: Latest Available Issue

This quarterly periodical reports on federal and state program efforts for controlling leaking USTs nationally. Regular highlights include news on the latest technologies, health and safety notes, public education materials, and compliance and enforcement actions. [20 pages]

Audience: General public; State and local UST program officials; EPA Regional UST program officials; UST owners and operators; contractors and consultants
Order From: New England Interstate Environmental Training Center, 2 Fort Road, South Portland, ME 04106, 207 767-2539

Order: By bulletin number
Cost: Current issue free
\$2.50 for back order for one issue prepaid;
\$10.00 for all previous issues prepaid

■ **Managing Underground Storage Tanks. Slide Presentation—Order Brochure**

Pub. No.: EPA 510-F-92-203
Pub. Date: 1986

Whether you're starting an UST program or increasing public awareness about USTs, this informative slide presentation presents the facts and visuals to make a meaningful presentation. Slide show production can be customized to suit the interest and technical background of your audience, from concerned citizens to environmental scholars. Easy-to-use slide format designed for flexibility in the office, at the site, or in the

classroom. Package includes 186 color slides, a 27-page script, and 103 pages of reproducible graphics. Slides can be purchased separately or as a set.

Audience: General public; state and local UST program officials

Order From: National Audiovisual Center, 8700 Edgeworth Drive, Capitol Heights, MD 20743, 301 763-1896

Order: By title

Cost: \$120

■ **Publications List—For Distribution to Public**

Pub. No.: EPA 510-B-92-204
Pub. Date: January 1992

Materials to promote awareness among the regulated community and concerned citizens about USTs. Lists non-technical brochures, regulations, technical reports, and audiovisual programs. [4 pages]

Audience: General public; UST owners and operators

Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-B-92-204

Cost: Free

■ **Update: Underground Storage Tank Financial Responsibility**

Pub. No.: EPA 510-F-92-001
Pub. Date: March 14, 1990

EPA extended by one year the deadlines for compliance with financial responsibility requirements for petroleum marketers owning between 13 and 99 USTs. As a result of this extension, owners and operators had until October 26, 1992 to comply. This update clarifies the goals and rationale of the extension. [2 pages]

Audience: General public; state and local UST program officials; UST owners and operators

Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-F-92-001

Cost: Free

■ **Regional and State UST Program Contacts**

Pub. No.: EPA 510-B-92-201
 Pub. Date: March 1992

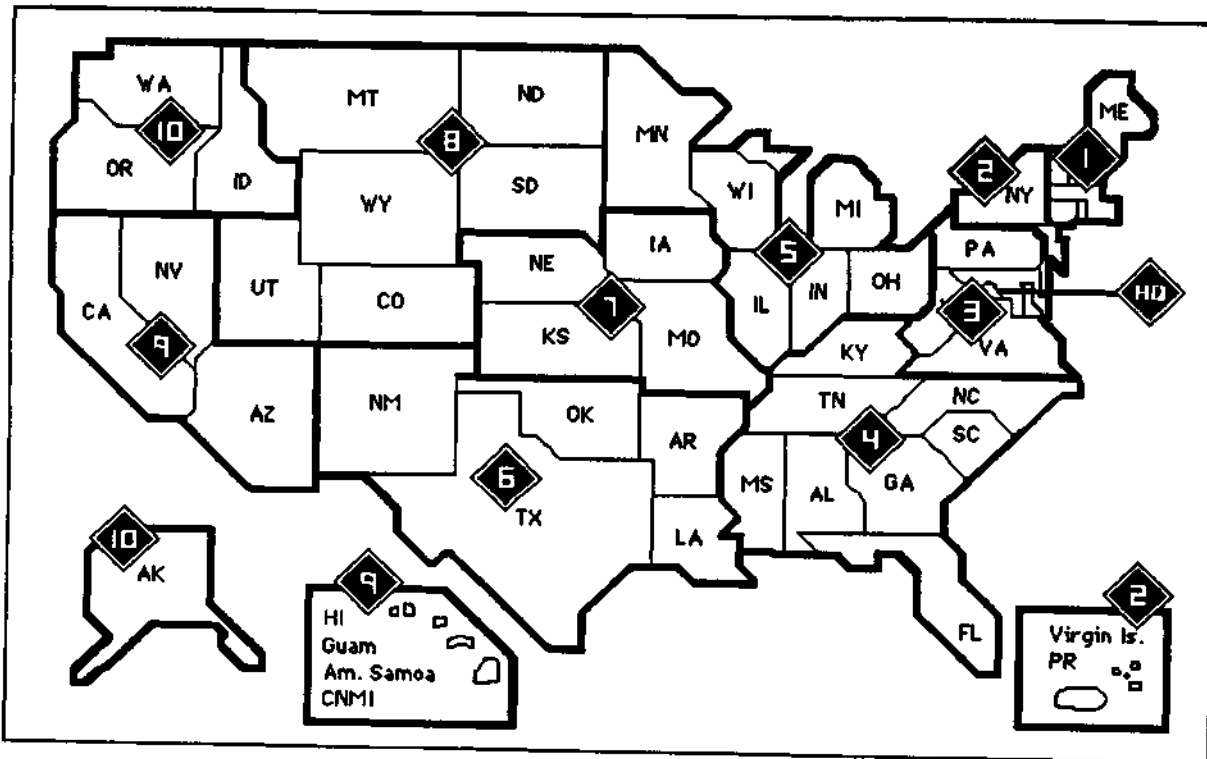
Names, addresses, and telephone numbers of EPA Regional UST program offices and the addresses and telephone numbers of state UST and LUST program contacts. Map illustrates regional distribution of UST programs. Distinguishes states where one person serves as both UST and LUST program contact from

states with separate contacts. Updated March 1992. [4 pages]

Audience: General public; UST owners and operators; state and local UST program officials

Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-B-92-201
Cost: Free



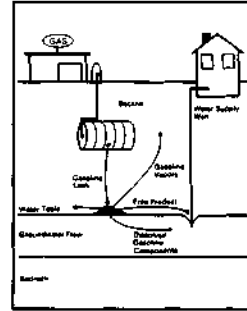
■ **Here Lies the Problem**

Pub. No.: EPA 510-K-92-003
Pub. Date: March 1990

The general facts, issues, and solutions to leaking USTs presented in a thorough, easy-to-read brochure. Consequences of action and inaction are discussed.

Audience: General public; UST owners and operators

Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242



Order: EPA 510-K-92-003
Cost: Free

■ **The LUST Story—Leaking Underground Storage Tanks**

Pub. No.: EPA 510-V-92-202
Pub. Date: February 1990

Ten-minute video provides a concise, easy-to-understand introduction to leaking UST problems and solutions. Intended for use by regional, state, and local officials. Suitable for general audiences. No copyright restrictions against duplication and distribution. [10 minutes]

Audience: General public; state UST program officials; UST owners and operators
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-V-92-202
Cost: Free

■ **The UST National Poster**

Pub. No.: EPA/530/UST-90/002
Pub. Date: March 1990

Raise awareness of UST problems in your state or community with this attractive four-color, 30x20-inch poster. Warns of the danger of leaking USTs, identifies the obvious signs of a leak, and urges the reader to notify state environmental officials or the local fire department. Includes EPA's RCRA Superfund Hotline telephone number. [1 page]

Audience: General public; state and local UST program officials
Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA/530/UST-90/002
Cost: Free

■ **Underground Storage Tanks:
In Your Own Backyard**

Pub. No.: EPA 510-V-92-903
Pub. Date: February 1988

A brief, easy-to-understand video explanation of the dangers and complexities of leaking USTs for the public. Lends itself to presentations and distribution over community cable television. [9 minutes]

Audience: General public; state and local UST program officials; UST owners and operators

Order From: TZ Communications, P.O. Box 332, Holbrook, MA 02343

Order: By title

Cost: \$30 prepaid plus \$3.55 shipping and handling

■ **Underground Storage Tanks:
The New Federal Law**

Pub. No.: EPA 510-F-92-501
Pub. Date: November 1985

A brief, but complete, plain-English explanation of the new federal regulations. Deals with new requirements, notification policies, the role of state programs, and the federal and state role in inspection and enforcement.

Audience: General public; state and local UST program officials

Order From: U.S. Environmental Protection Agency, EPA Publications and Information Center, 11029 Kenwood Road, Cincinnati, OH 45242

Order: EPA 510-F-92-501

Cost: Free

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The following industry publications are referenced in EPA technical regulations for USTs. The publications can be obtained directly from the organizations listed. Prices are subject to change.

■ Association of Composite Tanks

The Association of Composite Tanks (ACT) and the Steel Tank Institute (STI) consolidated operations. For ordering information about ACT-100, *Specification for External Corrosion Protection of FRP Composite Steel USTs*, Please see the Steel Tank Institute entry in this section.

■ American National Standards Institute

Standard B31.4, Liquid Petroleum Transportation Piping System. \$85

To Order: Prepay by check or money order to ANSI, Attn: Sales Department, 11 W. 42nd Street, 13th Floor, New York, NY 10036.

■ American Petroleum Institute

RP 1615, Installation of Underground Petroleum Storage Systems. Order Number: 804-16150; \$18.

RP 1621, Recommended Practice for Bulk Liquid Stock Control at Retail Outlets. Order Number: 804-16210; \$15.

RP 1626, Storing and Handling Ethanol and Gasoline-Ethanol Blends at Distribution Terminals and Service Stations. Order Number: 804-16260; \$16

RP 1627, Storage and Handling of Gasoline-Methanol/Cosolvent Blends at Distribution Terminals and Service Stations. Order Number: 804-16270; \$16.

RP 1631, Recommended Practice for Interior Lining of Existing Steel USTs. Order Number: 804-16310; \$22

RP 1632, Cathodic Protection of Underground Petroleum Storage Tanks and Piping Systems. Order Number: 804-16320; \$16.

Publication 2015, Cleaning Petroleum Storage Tanks. Order Number 855-21050; \$30.

Publication 2200, Repairing Crude Oil, Liquefied Petroleum Gas, and Product Pipelines. Out of print. Please call API library 800/521-0600 for photocopies and prices.

To Order: Visa and MasterCard; prepay check or money order accepted. Call 202/682-8227; fax 202/962-4776; or write API, 1970 Chain Bridge Road, McLean, VA 22109-6000.

■ American Society of Testing and Materials

Standard Specification for Glass-Fiber-Reinforced Polyester Underground Petroleum Storage Tanks. Order Number: D4021; \$12.

To Order: Prepay by check or money order. Call Information Center 215/299-5400; or write ASTM, Customer Service, 1916 Race Street, Philadelphia, PA 19103.

■ National Association of Corrosion Engineers

Control of External Corrosion on Metallic Buried, Partially Buried, or Submerged Liquid Storage Systems. \$12 for NACE members; \$ 15 for non-members.

Control of External Corrosion on Submerged Metallic Piping Systems. \$12 for NACE members; \$ 15 for non-members.

To Order: MasterCard, Visa, Carte Blanche, Diners Club, and Discover accepted. Prepay by check or money order. Call 713/492-0535, extension 81; fax 713/492-8254; or write NACE, P.O. Box 218340, Houston, TX 77218-8340.

■ **National Institute of Occupational Safety and Health**

Criteria for a Recommended Standard: Working in Confined Space. Free

To order: Phone orders are taken from 1-4:30 p.m. EST. Call 513/533-8287; fax requests to 513/533-8573, or write NIOSH, Publication Mail Stop C-134676 Columbia Parkway, Cincinnati, OH 45226.

■ **National Fire Protection Association**

Standard 30, Flammable and Combustible Liquid Codes. \$18 for members; \$20 for non-members.

Standard 329, Underground Leakage of Flammable and Combustible Liquids. \$16.20 for members; \$18 for non-members.

To Order: Visa, MasterCard and pre-pay by check or money order. Billings, add \$4.15 service charge. Call 800/344-3555; write P.O. Box 9146, Quincy, MA 02269.

■ **National Leak Prevention Association**

Entry Cleaning Interior Inspection Repair and Lining of USTs, formerly Spill Prevention, Minimum 10 Year Life Extension of Existing Steel Underground Tanks By Lining Without the Addition of Cathodic Protection. \$25.

To Order: Prepay by check or money order to: NLPA, PO Box 1643, Boise, ID 83701-1643

■ **Petroleum Equipment Institute**

RP 100-90, Recommended Practices for Installation of Underground Liquid Storage Systems. \$10.

To Order: Prepay by check or money order to PEI, Publications Department, P.O. Box 2380, Tulsa, OK 74101

■ **Steel Tank Institute**

STI-P3-90, sti-P3 Specification and Manual for External Corrosion Protection of Underground Steel Storage Tanks; formerly Specification for sti-P3 System of External Corrosion Protection of Underground Steel Storage Tanks. \$50

F841-91, STI Standard for Dual Wall Underground Steel Storage Tanks, formerly Standard for Dual Wall USTs. First three copies free, \$5 each additional copy.

F894-91, STI ACT-100 Specification for External Corrosion Protection of FRP Composite Steel USTs. \$50

To Order: Prepay by check or money order to Steel Tank Association, 570 Oakwood Road, Lake Zurich, IL 60047.

■ **Underwriters Laboratories**

UL Standard 58, Standard for Steel Underground Tanks for Flammable and Combustible Liquids. \$20

UL Standard 567, Pipe Connectors for Flammable and Combustible and LP Gas. \$20

UL Standard 1316, Standard for Glass-Fiber-Reinforced Plastic Underground Tanks for Petroleum Products. \$20

UL Standard 1746, Corrosion Protection Systems for USTs. \$20

UL Subject 971, UL Listed Non-Metal Pipe. Out of print

To order: Prepay by Visa, MasterCard, American Express, check or money order accepted. Send written requests to: UL, PO Box 75330, Chicago, IL 60675-5330.

■ Underwriters Laboratories of Canada

CAN4-S615-M83, Standard for Reinforced Plastic USTs for Petroleum Products. \$13.60

CAN/ULC-S633-M84, Standard for Flexible Underground Hose Connectors for Flammable and Combustible Liquids, formerly UL-Canada CAN4-S633-M81, Flexible Underground Hose Connectors. \$20

CAN4-S631-M84, Standard for Isolated Bushings for Steel Underground Tanks Protected with Coatings and Galvanic Systems. \$10.40

CAN/ULC-S603.1-92, Standard for Galvanic Corrosion Protection Systems for Underground Tanks for Flammable and Combustible Liquids, formerly CAN4-G3.01-M85, Standard for Galvanic Corrosion Protection Systems for Underground Tanks for Flammable and Combustible Liquids. \$28

CAN/ULC-S603-92, Standard for Steel Underground Tanks for Flammable and Combustible Liquids, formerly CAN4-S603-M85, Standard for Steel Underground Tanks for Flammable and Combustible Liquids. \$28

C107C-M1984, Glass Fiber Reinforced Plastic Pipe and Fittings for Flammable Liquids, formerly UL-Canada Guide ULC-107, Glass Fiber Reinforced Plastic Pipe and Fittings for Flammable Liquids. \$6.40

To Order: Prices are in U.S. dollars. Add \$5 for shipping and handling. Send check or money order to ULC, 7 Crouse Road, Scarborough, Ontario, Canada M1R 3A9