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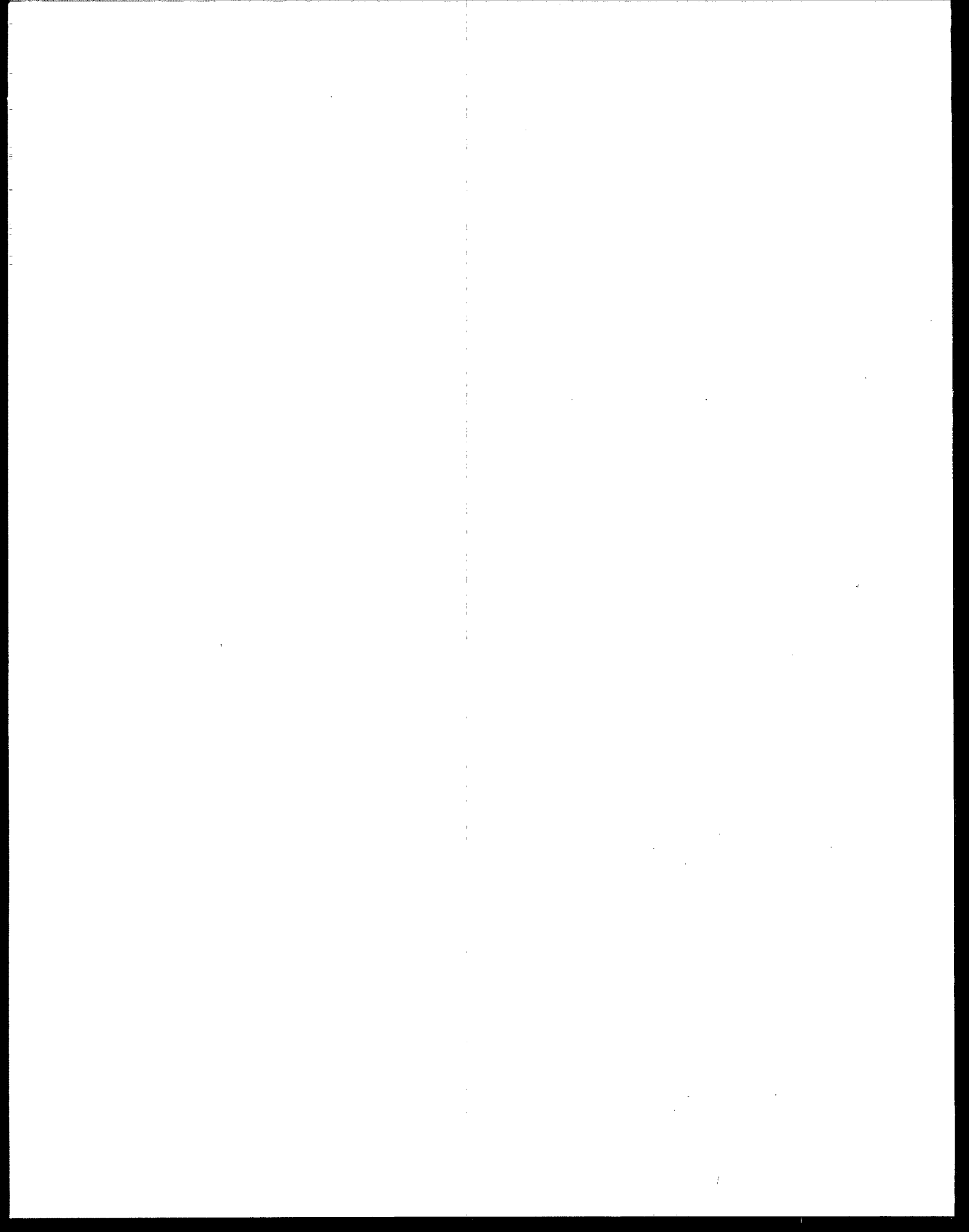
Guide to EPA Materials on Underground Storage Tanks

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

September 1994

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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 150 different titles. Titles referenced here include publications, videos, and software packages which were developed by EPA through July 31, 1994.

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

Entries are divided into 11 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, or computer software); and publication number.

Title**Source's method of tracking materials.**

- **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]

Principal audience for which material was developed.

Audience: State and local UST inspectors

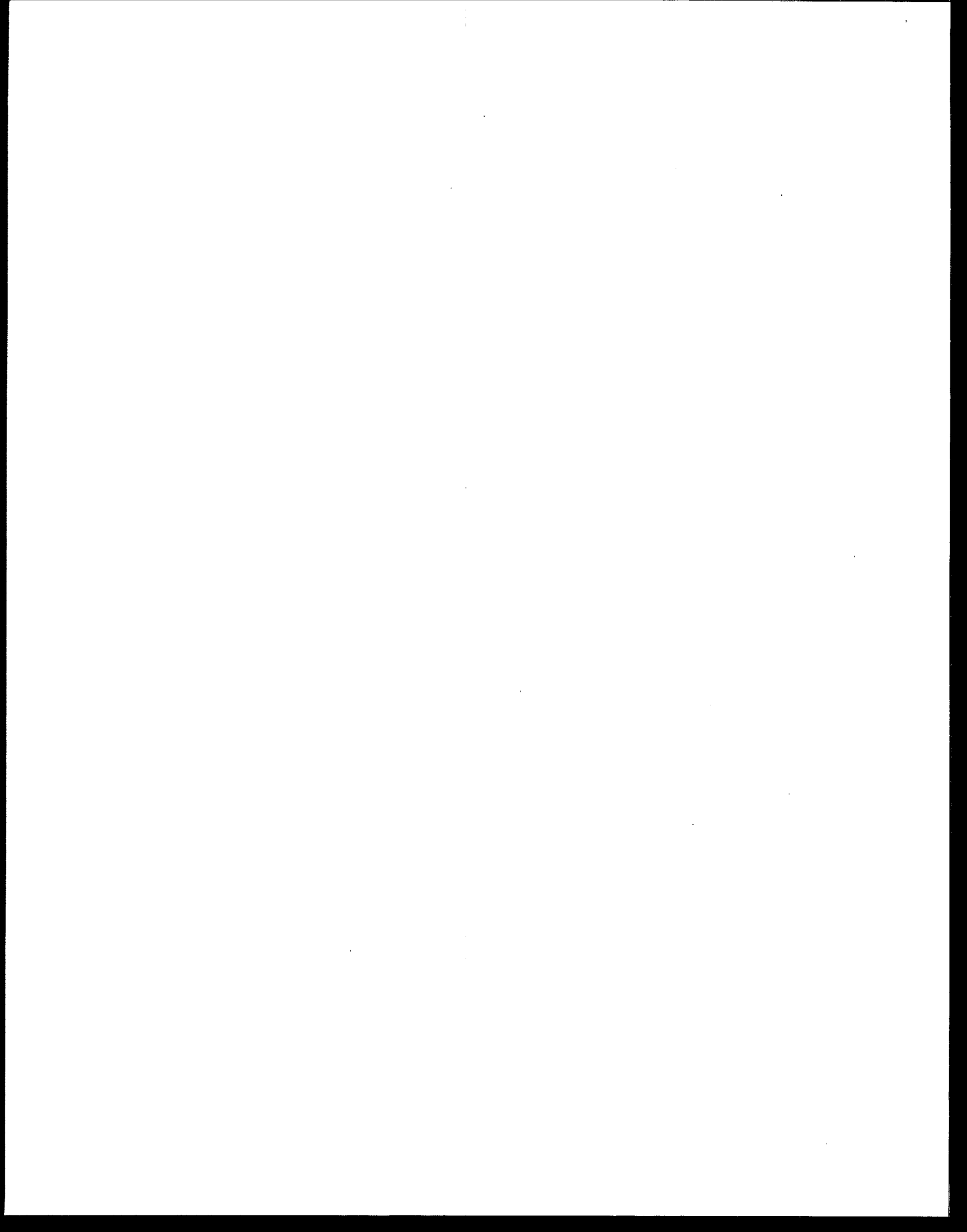
See "To Order Materials."

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2417. FAX orders only: 513 891-6685

Order: EPA/530/UST-91/016

Price: Free

Refer to when ordering.



Please order materials from the specific information source listed under the heading "Order From" following each product description.

Materials in this catalog are not generally available through EPA OUST Headquarters.

- **American Petroleum Institute**
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1220 L St., NW
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202 682-8375; (FAX) 202 962-4776

To Order: Provide title. Visa, Mastercard; minimum \$6.00 shipping and handling on prepaid orders. Will invoice.

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- **New England Interstate Environmental Training Center**
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- **Petroleum Equipment Institute**
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- **National Technical Information Service**
5285 Port Royal Road
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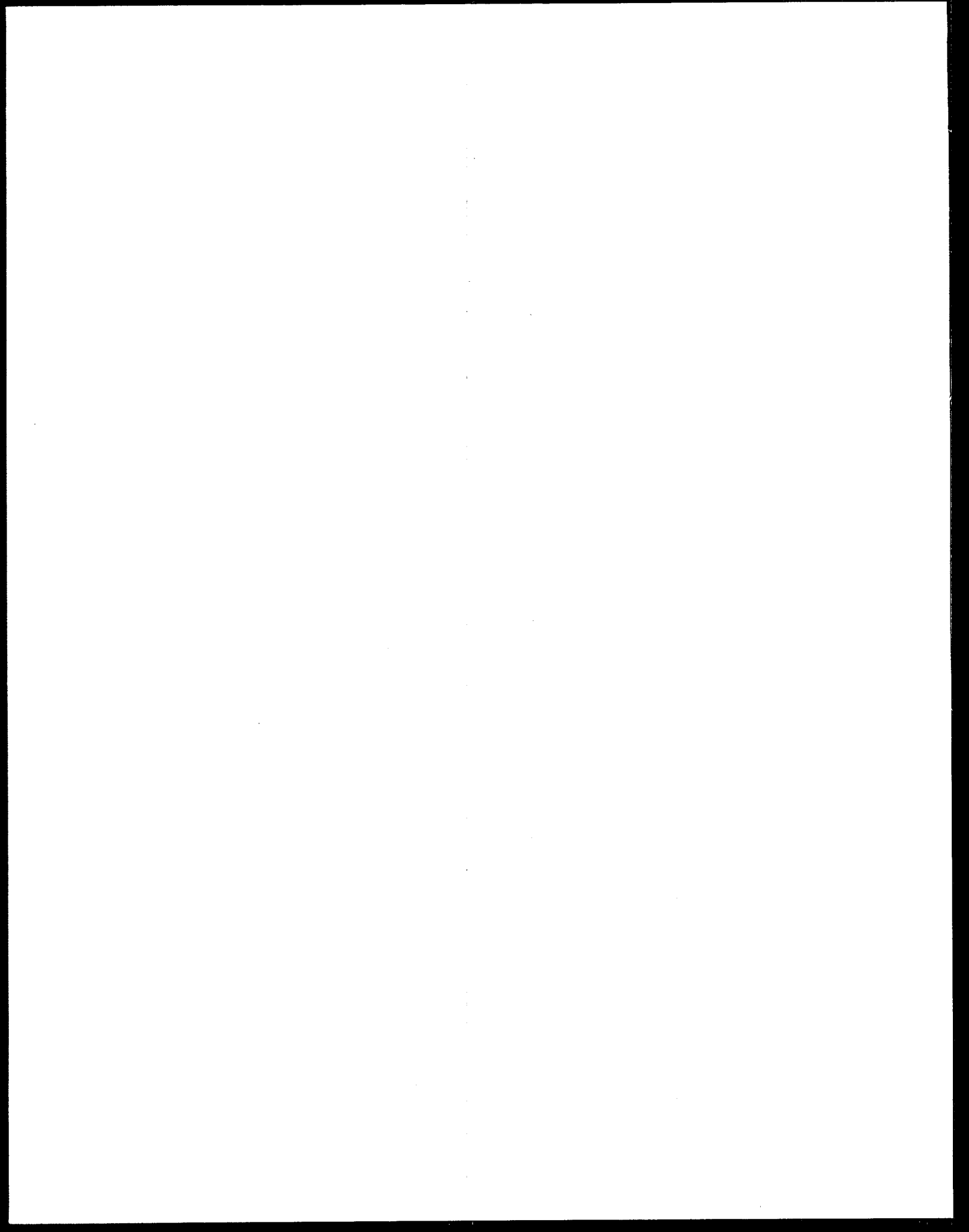
To Order: Provide document number.

- **U.S. Environmental Protection Agency
National Center for Environmental
Publications and Information
P.O. Box 42419
Cincinnati, OH 45242-2419
FAX Orders Only: 513 891-6685**

To Order: Provide title or order number. Visa and MasterCard accepted. Check or money order must be submitted with written request. Provide title and EPA publication number. Also available through the EPA RCRA/Superfund Hotline: 1 800 424-9346 (TDD for the hearing-impaired: 1 800 553-7672), 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.

- **University of Wisconsin Extension Publications
Room 245
30 N. Murray
Madison, WI 53715
608 262-3346**

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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 used 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. The law 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.

■ **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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-K-92-401

Price: Free

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

Pub. No.: EPA 510-Z-92-501
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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-Z-92-501

Price: Free

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

Pub. No.: EPA 510-Z-92-601
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

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Order: EPA 510-Z-92-601

Price: 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA/530/UST-88/005

Price: Free

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

Pub. No.: EPA 510-Z-92-801

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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-Z-92-801

Price: 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-B-92-203

Price: 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.: EPA 510-Z-92-802
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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-Z-92-802

Price: 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 closure 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

Price: \$85 perpaid

■ **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

Price: \$3.25

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

Pub. No.: EPA 510-Z-92-901
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 cancellation 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

Price: 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: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: By title

Price: \$2.50

■ **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 provisions. 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-R-92-002

Price: Free

■ **Underground Heating Oil and Motor Fuel Tanks Exempt from Regulation Under Subtitle I of RCRA: A Study for Report to Congress**

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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-R-92-003

Price: Free

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

Pub. No.: EPA 510-Z-90-100
Pub. Date: May 2, 1990

This rule modifies the deadline for financial responsibility requirements for petroleum marketing firms that own between 13 and 99 underground storage tanks (USTs) at more than one facility. The deadline is extended from April 26, 1990 to April 26, 1991. This will provide addi-

tional time for the development of financial assurance mechanisms (e.g., state assurance funds) to enable this group to comply. [2 pages]

Audience: Owners and operators; Regional, state and local UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-Z-90-100

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

Pub. No.:
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

Publication No. 510-Z-90-100
Longer Available

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

Pub. No.: EPA 510-Z-92-002
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. [4 pages]

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

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Order: EPA 510-Z-92-002

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■ **Federal Register—Underground Storage Tanks; Technical Requirements; Interim Final Rule. 40 CFR Part 280**

Pub. No.: EPA 510-Z-91-002
Pub. Date: January 2, 1991

This interim final rule extended the December 22, 1990 deadline for UST owners and operators to install automatic line leak detectors on new or existing underground pressurized piping systems with minimum requirements for a probability of detection of 0.95 and a probability of false alarm of 0.05. The December 22, 1990 deadline for installation of pipeline leak detec-

tion, tightness testing, and monthly monitoring was not changed, the deadline for meeting the minimum probability requirements was extended to September 22, 1991. [2 pages]

Audience: Owners and operators; Regional, state and local UST program officials

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Order: EPA 510-Z-91-002

Price: Free

■ **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 requirements 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

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Order: EPA 510-F-92-101

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■ **Federal Register—Underground Storage Tanks; Technical Requirements; Final Rule. 40 CFR Part 280**

Pub. No.: EPA 510-Z-91-200
Pub. Date: August 13, 1991

Overfilling UST systems is a common source of petroleum releases onto the surface of the ground. This rule makes final an addition to performance standards for overfill prevention equipment for new UST systems. [4 pages]

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

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Order: EPA 510-Z-91-200

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■ **Federal Register—Issuance of and Administrative Hearings on RCRA Section 9003(h) Corrective Action Orders for Underground Storage Tanks; Final Rule. Part VII, 40 CFR Part 24**

Pub. No.: EPA 510-Z-91-001
Pub. Date: September 27, 1991

This final rule establishes administrative procedures for issuing corrective action orders and conducting administrative hearings pursuant to RCRA §9003(h). This document outlines the background of the rule, addresses public com-

ments and concerns about the rule, and describes procedures for the hearing process. [10 pages]

Audience: Owners and operators

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Order: EPA 510-Z-91-001

Price: Free

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

Pub. No.: EPA 510-Z-92-102
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

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■ **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

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Order: EPA 510-R-92-201

Price: Free

■ **EPA Proposes to Exempt Underground Storage Tanks Petroleum-Contaminated Media and Debris from RCRA Hazardous Waste Requirement, Environmental Fact Sheet**

Pub. No.: EPA 510-F-93-009
Pub. Date: February 1993

On February 12, 1993, EPA proposed a rule under which media and debris generated from petroleum UST corrective actions that are subject to Subtitle I would be exempted from certain portions of the Toxicity Characteristics (TC) Rule under the Resource Conservation and Recovery Act (RCRA). This fact sheet describes why EPA deferred applying the TC Rule to

UST-contaminated media and debris in 1990, and outlines how UST cleanup could be adversely affected if the deferral were removed. [2 pages]

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

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

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■ **Additional Mechanisms for Local Government Entities Owning or Operating Petroleum Underground Storage Tanks: Final Rule, Environmental Fact Sheet**

Pub. No.: EPA 510-F-93-010
Pub. Date: February 1993

On February 18, 1993, EPA promulgated additional assurance mechanisms for use by local governments. This fact sheet describes the four additional mechanisms that local governments can use to comply with financial responsibility requirements. [2 pages]

Audience: Local governments; state and local UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-F-93-010

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■ **Federal Register—Exemption of Petroleum-Contaminated Media and Debris From Underground Storage Tanks from RCRA Hazardous Waste Requirements; Proposed Rule. Part VIII, 40 CFR Part 261**

Pub. No.: EPA 510-Z-93-005
Pub. Date: February 12, 1993

In this notice, EPA proposes to exempt from certain portions of the Toxicity Characteristics (TC) rule contaminated media and debris generated from petroleum UST corrective actions that are subject to Subtitle I of the Resource Conservation and Recovery Act (RCRA). This document describes the TC rule and the Agency's reasons for the UST deferral; explains the kinds of media and debris that would be exempt; announces the results of two studies on this

issue; outlines regulatory alternatives that EPA examined; and provides results of an economic impact analysis of the proposed exemption. [10 pages]

Audience: Federal, State, and local UST, Solid Waste, and Hazardous Waste program officials; owners and operators; contractors and consultants

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-Z-93-005

Price: Free

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

Pub. No.: EPA 510-Z-93-001
Pub. Date: February 18, 1993

This rule establishes four additional mechanisms—bond rating test, worksheet test, governmental guarantee, or fund balance test—that local governments can use to demonstrate financial responsibility for corrective action and third party liability for USTs. The document includes background on the rule, descriptions

and analyses of the four alternative mechanisms, and an economic impact analysis of the rule. [34 pages]

Audience: Local governments; state and local UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-Z-93-001

Price: Free

■ **EPA Releases Report to House Appropriations Committee on the Leaking Underground Storage Tank Program, Environmental Fact Sheet**

Pub. No.: EPA 510-F-93-012
Pub. Date: March 1993

In August 1992, the House Appropriations Committee asked EPA to provide a report on the extent of the UST problem, the status of EPA's efforts, and the costs involved in remedying this problem. This fact sheet provides highlights of the report, including the size of the UST universe, estimates of the numbers of confirmed releases, total numbers and costs of cleanups,

and OUST's priorities for future activities. [2 pages]

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

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-F-93-012

Price: Free

■ **STI Notice of Data Availability, Environmental Fact Sheet**

Pub. No.: EPA 510-F-93-031
Pub. Date: October 1993

On October 25, 1993, EPA published a *Notice of Data Availability* in the *Federal Register*. This notice summarized the methodology, findings, and conclusions of a study conducted by Tillinghast, a Towers Perrin Company, on behalf of the Steel Tank Institute. The Tillinghast study examined the potential for external corrosion of sti-P3 underground storage tanks (USTs) as well as owners' and operators' corrosion monitoring practices for USTs. This fact sheet

describes the reasons for the study and announces the publication of and ordering information for the *Notice*. [2 pages]

Audience: Owners and operators; Regional, state and local UST program officials; general public

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-F-93-031

Price: Free

■ **Federal Register—Evaluation of the Potential for External Corrosion and Review of Cathodic Protection Monitoring Associated with sti-P3 Underground Storage Tank Data Availability; Notice of Data Availability**

Pub. No.: EPA 510-Z-93-003
Pub. Date: October 25, 1993

This notice summarizes the methodology, findings, and conclusions of a study conducted by Tillinghast, a Towers Perrin Company, on behalf of the Steel Tank Institute. This study examined the potential for external corrosion of sti-P3 underground storage tanks (USTs) as well as

owners' and operators' corrosion monitoring practices for USTs. [4 pages]

Audience: Owners and operators; Regional, state and local UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-Z-93-003

Price: Free

■ **Federal Register—Underground Storage Tank Program; Approved Program for New Hampshire; Immediate Final Rule. Part III, 40 CFR Part 282**

Pub. No.: EPA 510-Z-93-004
Pub. Date: November 2, 1993

The Resource Conservation and Recovery Act of 1976 (RCRA) as amended by the Hazardous and Solid Waste Amendments (HSWA) of 1984 authorizes EPA to grant approval to states to operate their underground storage tank (UST) programs in lieu of the federal program. This rule provides the regulatory framework under which state programs may be codified, and it specifically codifies the prior approval of New

Hampshire's UST program and incorporates by reference appropriate provisions of New Hampshire state statutes and regulations. [4 pages]

Audience: Owners and operators; Regional, state and local UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-Z-93-004

Price: Free

■ **1998 Financial Responsibility Compliance Deadline For Indian Tribes That Own Underground Storage Tanks On Indian Lands: Final Rule, Environmental Fact Sheet**

Pub. No.: EPA 510-F-94-001
Pub. Date: February 1994

On February 18, 1994, EPA finalized a rule to extend the financial responsibility compliance deadline from February 18, 1994 to December 31, 1998 for Federally-recognized Indian tribes that own underground storage tanks (USTs) on Indian lands if those tanks comply with all current federal technical requirements such as leak detection. This fact sheet provides back-

ground on the need for this extension, and provides the Agency's rationale for the 1998 compliance deadline. [2 pages]

Audience: Owners and operators; Regional, state and local UST program officials; general public

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-F-94-001

Price: Free

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

Pub. No.: EPA 510-Z-94-001
Pub. Date: February 28, 1994

This rule extends the financial responsibility compliance deadline for Federally-recognized Indian tribes that own USTs on Indian lands from February 18, 1994 to December 31, 1998. This change will allow EPA, the Bureau of Indian Affairs and Indian tribes additional time to explore options for solving funding problems

for cleaning up contamination and for achieving compliance with technical requirements such as tank upgrading. [4 pages]

Audience: Owners and operators; Regional, state and local UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-Z-94-001

Price: Free

■ **EPA Proposes a Lender Liability Rule for Underground Storage Tanks; Proposed Rule, Environmental Fact Sheet**

Pub. No.: EPA 510-F-94-002
Pub. Date: June 1994

Many UST owners and operators find that lenders are often unwilling to provide them with the capital needed to make necessary improvements to their facilities to comply with environmental regulations, including federal UST upgrading and replacement requirements. This one-page flyer describes a proposed rule that should result in greater capital availability for UST owners and operators by specifying the condi-

tions under which certain lenders may be exempted from RCRA Subtitle I regulatory requirements as owners and operators. [1 page]

Audience: Owners and operators; Regional, state and local UST program officials; lending institutions

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-F-94-002

Price: Free

■ **Federal Register—Underground Storage Tanks—Lender Liability; Proposed Rule. Part III, 40 CFR Parts 280 and 281**

Pub. No.: EPA 510-Z-94-002
Pub. Date: June 13, 1994

Many UST owners and operators find that lenders are often unwilling to provide them with the capital needed to make necessary improvements to their facilities to comply with environmental regulations, including federal UST upgrading and replacement requirements. This proposed rule specifies the conditions under which cer-

tain lenders may be exempted from liability under RCRA Subtitle I regulatory requirements for owners and operators. [19 pages]

Audience: Owners and operators; Regional, state and local UST program officials; lending institutions

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-Z-94-002

Price: Free

■ **FY 1989 - FY 1990 Transition Strategy For the Underground Storage Tank Program, OSWER Directive**

Pub. No.: OSWER9610.5
Pub. Date: April 1, 1988

At the beginning of FY 1989, EPA's underground storage tank (UST) program began a transition, as its focus shifted from developing regulations to facilitating state implementation of the national UST program. This directive outlines a transition strategy for Regions and states and identifies appropriate activities for each to take during the transition period, the period of time between the issuance of EPA's

final regulations and the times state programs are approved to operate in lieu of the federal program. [9 pages]

Audience: Regional and state UST program staff

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: OSWER9610.5

Price: Free

■ **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 sources are 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA/530/UST-88/002

Price: Free

■ **Transition Tasks List, OSWER Directive**

Pub. No.: OSWER9610.5-1
Pub. Date: January 30, 1989

The Federal underground storage tank (UST) regulations regulate owners and operators of UST systems, and by doing so imply certain activities that must be conducted by the agencies (e.g., states) that implement the technical and financial standards set forth in the rule. This directive identifies the tasks that are specified in the final regulations that are a responsibility of the implementing agency, including those asso-

ciated with technical and financial responsibility requirements. [15 pages]

Audience: Regional and state UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: OSWER9610.5-1

Price: 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

■ **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 sup-

ports 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-K-92-201

Price: 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 500-B-92-004

Price: 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 500-B-92-005

Price: Free

■ **Streamlined Implementation of UST Corrective Action Requirements, OSWER Directive**

Pub. No.: OSWER9650.13
Pub. Date: November 23, 1992

To meet the challenges posed by a large regulated community and limited resources, underground storage tank (UST) programs at the state, local and national levels must find ways to deal with releases more efficiently. One technique that can help to achieve this goal is called "streamlining." In the UST program, streamlining means using total quality management principles, improved technologies, and innovative regulatory approaches to more quickly, effec-

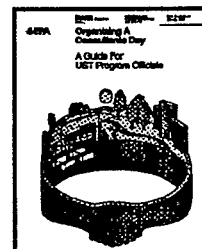
tively, and efficiently address releases. This directive provides guidance that agencies (especially state UST programs) can use to streamline their corrective action processes. [16 pages]

Audience: Regional and state UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: OSWER9650.13

Price: Free



■ **Organizing A Consultants Day: A Guide For UST Program Officials**

Pub. No.: EPA 510-B-93-001
Pub. Date: January 1993

A Consultants Day provides an opportunity for UST program officials to meet with contractors and consultants involved in UST activities as well as tank owners and operators, to exchange information and express ideas openly. This guide describes Consultants Days, explains how to organize one, and provides advice on allocating time and money, developing materials, and pursuing follow-up activities. [48 pages]

Audience: State and local UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-B-93-001

Price: Free

■ **Streamlined Implementation: A New Way to Look at UST Corrective Actions**

Pub. No.: EPA 510-F-93-011
Pub. Date: March 1993

By streamlining cleanup procedures and oversight systems, state UST programs can accomplish faster, cheaper, and more effective cleanups. This leaflet describes OSWER Directive 9650.13, which encourages the use of streamlining, outlines the benefits of streamlining, explains EPA's intent in issuing the directive, and describes the content of the directive. [2 pages]

Audience: State UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-F-93-011

Price: Free

■ **UST Program Fact Sheets**

Pub. No.: EPA 510-F-94-003 through -010
Pub. Date: August 1994

These fact sheets offer facts, figures, and basic information on the UST program to help program staff answer questions from the media, public, legislature, and others. The eight titles in this series are: 1) *Financial Responsibility*; 2) *Preventing Leaks: Technical Regulations*; 3) *Detecting Leaks: Technical Regulations*; 4) *Leaking Underground Storage Tank Cleanup*; 5) *Leaking Underground Storage Tank Trust Fund*; 6) *Overview of the UST Program*; 7) *State UST Programs*, and 8) *Environmental Justice*.

Audience: State and local UST program officials; EPA UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-F-94-003 through -010

EPA 510-F-94-003 -- Financial Responsibility
EPA 510-F-94-004 -- Preventing Leaks
 Technical Regulations
EPA 510-F-94-005 -- Detecting Leaks:
 Technical Regulations
EPA 510-F-94-006 -- Leaking Underground
 Storage Tank Cleanup
EPA 510-F-94-007 -- Leaking Underground
 Storage Tank Trust Fund
EPA 510-F-94-008 -- Overview of the UST
 Program
EPA 510-F-94-009 -- State UST Programs
EPA 510-F-94-010 -- Environmental Justice

Price: Free

■ **UST/LUST National Native American Lands Policy Statement, OSWER Directive**

Pub. No.: OSWER9610.15
Pub. Date: April 6, 1993

EPA is responsible for implementing the UST/LUST program on Native American Lands. The Agency is committed to protecting human health and the environment by bringing all USTs on Tribal Lands into compliance with federal UST regulations to prevent leaks and clean up existing contamination from leaking USTs. This directive outlines the activities that Regions can

take to further implementation of UST/LUST programs on Native American Lands. [5 pages]

Audience: Regional and state UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: OSWER9610.15

Price: Free

■ **State UST Program Grant Guidance, OSWER Directive**

Pub. No.: OSWER9630.9
Pub. Date: May 5, 1993

EPA's Underground Storage Tank (UST) Grant Program is designed to provide "seed" money to states to assist them with the development and implementation of state UST programs. This directive outlines the national priorities and goals of EPA's UST program, shows the regional distribution of UST Grant Funds and briefly explains how the UST Grant process works. [10 pages]

Audience: Regional and state UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: OSWER9630.9

Price: Free

■ **Monitoring the Financial Soundness of Approved State Assurance Funds, OSWER Directive**

Pub. No.: OSWER9650.14
Pub. Date: August 12, 1993

State underground storage tank (UST) program funds provide tank owners and operators with an affordable financial responsibility compliance mechanism as well as large sums of money for UST cleanups. It is in the interest of EPA, states, and UST owners and operators that these funds remain financially viable. This guidance, which focuses strictly on funds for corrective action and third party claims, outlines tools that

can be used to monitor the soundness of state UST program funds and provides an array of solvency measures that can be tailored to each state fund. [24 pages]

Audience: Regional and state UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: OSWER9650.14

Price: Free

■ **Using Bonds To Close The Gap: A Guide To Revenue Options For State Fund Administrators**

Pub. No: EPA 510-B-93-010
Pub. Date: December 1993

State financial assurance funds for underground storage tanks (USTs) help to pay for cleanups and third-party liability costs associated with petroleum leaks. For some states, borrowing money through the issuance of bonds may help to remove short-term reimbursement backlogs. This guide provides administrators of these state funds with general information about how

to borrow money through the issuance of bonds that are secured primarily with fees collected by the state's UST program. [51 pages]

Audience: Owners and operators; Regional, state and local UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-B-93-010

Price: Free

■ **Cost Recovery Policy for the Leaking Underground Storage Tank Trust Fund, OSWER Directive 9610.10A**

Pub. No.: OSWER9610.10A
Pub. Date: May 24, 1994

The primary purpose of cost recovery under the leaking underground storage tank (LUST) Trust Fund is to provide incentives for owners and operators to comply with technical and financial responsibility requirements of Federal UST regulations. This directive has been revised to incorporate policy changes made since issuance of the 1988 cost recovery policy. (Note: This publication is also included as Appendix A of

the LUST Trust Fund Cooperative Agreement Guidelines, Pub. No. OSWER9650.10A.) [19 pages]

Audience: Regional, state and local UST program officials; local governments

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: OSWER9610.10A

Price: Free

■ **LUST Trust Fund Cooperative Agreement Guidelines, OSWER Directive**

Pub. No.: OSWER9650.10A
Pub. Date: May 24, 1994

This directive provides information to assist states and EPA regional offices in negotiating, awarding, and overseeing Leaking Underground Storage Tank (LUST) Trust Fund Cooperative Agreements. The guidelines have been revised to incorporate policy decisions made since issuance of the 1989 Trust Fund guidelines. The revised LUST Trust Fund Cost Recov-

ery Policy (OSWER Directive 9610.10A, May 24, 1994) is included in these guidelines. [57 pages]

Audience: Regional, state, and local UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: OSWER9650.10A

Price: 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-B-92-702

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■ 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA/530/UST-88/003

Price: Free

■ 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA Form 7530-1

Price: Free

■ **UST/LUST Enforcement Procedures Guidance Manual, OSWER Directive**

Pub. No.: OSWER9610.11
Pub. Date: July 7, 1990

This manual provides guidance for regional enforcement personnel on undertaking actions in response to violations of UST technical regulations and corrective action requirements. It provides a detailed overview of the UST/LUST enforcement program, describes situations appropriate to enforcement actions, and discusses development of enforcement cases, procedures

for issuing compliance and corrective action orders, and judicial actions that may be used. [54 pages]

Audience: Regional, state and local UST program officials; local governments

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: OSWER9610.11

Price: Free

■ **U.S. EPA Penalty Guidance for Violations of UST Regulations, OSWER Directive**

Pub. No.: OSWER9610.12
Pub. Date: November 14, 1990

Subtitle I of the Resource Conservation and Recovery Act (RCRA), as amended, provides EPA with authority to assess civil penalties for violations of underground storage tank (UST) requirements. This directive provides guidance on calculating civil penalties against owner/operators of USTs who are in violation of the UST technical standards and financial responsibility regulations. Although this document was designed primarily for EPA regional staff, state

and local UST implementing agencies might find it useful to adapt some of the concepts and methodologies for their own UST enforcement programs. [77 pages]

Audience: Regional, state and local UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: OSWER9610.12

Price: 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA/530/UST-91/014

Price: 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA/530/UST-91/015

Price: 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA/530/UST-91/016

Price: 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

Price: \$40 prepaid for set, \$10 prepaid for loan of set for 1 week; \$35 prepaid for video, \$5 prepaid for booklet

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

Pub. No.: EPA 510-F-92-003
Pub. Date: 1992

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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-F-92-003

Price: Free

■ **Guidance for Federal Field Citation Enforcement, OSWER Directive**

Pub. No.: OSWER9610.16
Pub. Date: October 6, 1993

Field citations are "traffic ticket"-styled citations that are issued to owners and operators who are out of compliance with underground storage tank (UST) regulatory requirements. This directive provides guidance on field citations to federal officials by describing how to identify violations for, and circumstances under which, the field citation is appropriate. It also offers guidance on penalty amounts to be

assessed, the form citations should take, and procedures for issuing citations and conducting follow-up. [28 pages]

Audience: Regional UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: OSWER9610.16

Price: 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 Corpora-

tion 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-R-92-701

Price: 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-S-92-801

Price: 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: National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161. 703 487-4650; (FAX) 703 321-8547

Order: Vol. 1 PB89-124333

Vol. 2 PB89-124341

Price: Vol 1 \$44.50; Vol. 2 \$98.00

■ **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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: Volume I, EPA 510-K-92-813;
Volume II, EPA 510-K-92-814

Price: 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 concentrations 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-R-92-801

Price: 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-S-92-802

Price: 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

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Order: EPA 510-K-92-811

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■ 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

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Order: EPA 510-K-92-812

Price: 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 measured 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-K-92-810

Price: 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA/530/UST-88/006

Price: 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA/625/9-89/009

Price: 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 601/5-89/916

Price: Free

■ Detecting Leaks: Successful Methods, Step-By-Step

Pub. No.: EPA/530/UST-89/012
Pub. Date: November 1989

The basic information in this handbook will help readers develop and implement UST regulations concerning release detection. Subjects include inventory, manual tank gauging, tank tightness testing, automatic tank gauging, vapor monitoring, groundwater monitoring, secondary containment with interstitial monitoring, and piping release detection methods. Indexed by subject. [215 pages]

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

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA/530/UST-89/012

Price: Free

■ 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 moni-

toring, 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 530/UST-90/012

Price: 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; and 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, National Center for Environmental

Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

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| EPA/530/UST-90/010 | - | Volumetric Tank Tightness Test Methods |

Price: 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 seg-

ment 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

Price: \$40 plus \$3.00 shipping and handling

■ **Chemicals Stored in USTs: Characteristics and Leak Detection**

Pub. No.: EPA/600/2-91/037
Pub. Date: August 1991

Regulatory standards for leak detection in USTs that contain hazardous chemicals are more stringent than those for tanks that contain petroleum motor fuels. This comprehensive report describes the regulatory standards for leak detection in tanks containing hazardous chemicals, the types of chemicals stored in the tanks, the effectiveness of tightness tests and gauging systems for leak detection in non-petroleum USTs, and the approaches to leak detection that owners and operators are currently implementing.

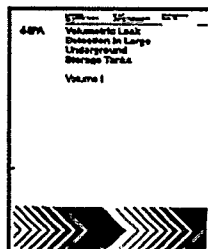
The report also includes questionnaires for owners and operators and leak detection system manufacturers. [62 pages]

Audience: Owners and operators; contractors and consultants; state and local UST program officials; leak detection system manufacturers

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA/600/2-91/037

Price: Free



■ **Volumetric Leak Detection in Large Underground Storage Tanks, Volume 1**

Pub. No.: EPA/600/2-91/044a
Pub. Date: August 1991

Performance standards for volumetric leak detection systems for USTs, established by EPA UST regulation (40 CFR Parts 280 and 281), were based upon experimental research in tanks with capacities of 8,000 to 10,000 gallons. However, the regulation requires the testing of tanks that can range much larger. This report addresses the performance of volumetric leak detection systems for large (15,000 to 50,000 gallons) USTs. The information provided in this report will

help owners and operators select and use systems that will be in compliance with the regulations when testing large tanks. [79 pages]

Audience: Owners and operators; contractors and consultants

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA/600/2-91/044a

Price: 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. [1 page]

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

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-F-92-201

Price: 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

■ Tank Issues: Site Characterization for External Leak Monitoring

Pub. No.: EPA/600/9-90/046
Pub. Date: February 1993

Before designing an external monitoring system for USTs, information about the natural and man-made characteristics of the site is needed. This paper discusses site characteristics that are important in the selection of a liquid or vapor monitoring system, in design and construction of monitoring wells, and in placement of the monitors. [7 pages]

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

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA/600/9-90/046

Price: Free

■ **Tank Issues: Design and Placement of Floating Liquid Monitoring Wells**

Pub. No.: EPA/600/9-90/045
Pub. Date: March 1993

Liquid product monitoring is the predominant method of external leak detection where the water table is within the zone of excavation. Liquid monitors are relatively easy to install and are suitable devices for monitoring USTs in many situations. This paper discusses the site conditions under which liquid monitors can be used effectively, describes how they are constructed and installed, and explains how to locate them around the UST to ensure proper

monitoring for ground water contamination. [3 pages]

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

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

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■ **Doing Inventory Control Right For Underground Storage Tanks**

Pub. No.: EPA 510-B-93-004
Pub. Date: November 1993

This booklet describes inventory control methods that can be used to help owners and operators of underground storage tank (UST) systems meet federal regulatory leak detection requirements. The booklet provides a step-by-step process for inventory control that is clear and easy to follow. [17 pages]

Audience: Owners and operators; Regional, state and local UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-B-93-004

Price: Free

■ **Manual Tank Gauging For Small Underground Storage Tanks**

Pub. No.: EPA 510-B-93-005
Pub. Date: November 1993

Federal and state laws require that underground storage tanks (USTs) be equipped with leak detection systems. Although much attention has been focused on large USTs, it is important that leaks from smaller tanks (generally less than 2,000 gallons of capacity) also have leak detection systems. This booklet provides simple, easy to follow, step-by-step directions for the

correct way to conduct manual tank gauging for smaller tanks. [12 pages]

Audience: Owners and operators; Regional, state and local UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-B-93-005

Price: Free

■ **Leak Detection List of Methodologies Used for Underground Storage Tanks, Seventh Edition**

Pub. No.: EPA 510-B-94-004
Pub. Date: February 11, 1994

EPA has compiled a list of leak detection methods that appear to have met or exceeded the accuracy requirements stated in the federal underground storage tank (UST) regulations. Seven general categories of leak detection methods are listed (e.g., tank tightness testing, statistical inventory methods, out-of-tank product detectors). For each category, information about the accuracy of various commercially-available leak

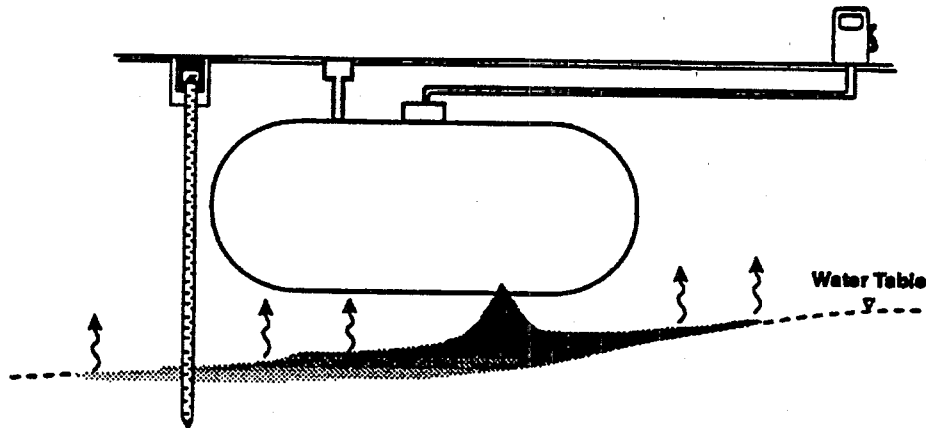
detection methods or systems are provided, as are names, addresses, and phone numbers for their manufacturers. [30 pages]

Audience: Owners and operators; Regional, state and local UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

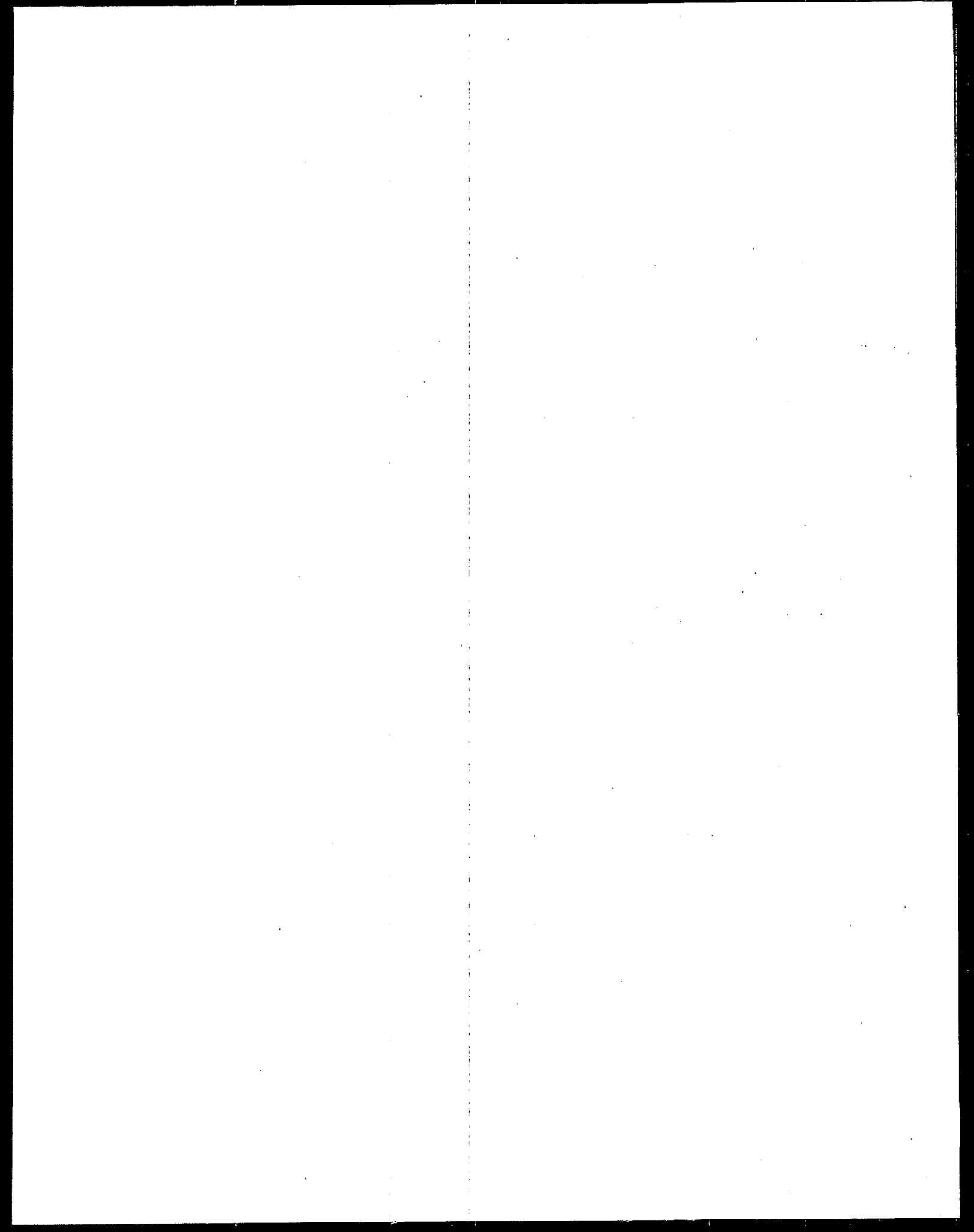
Order: EPA 510-B-94-004

Price: Free



The vapor monitor will detect hydrocarbon gases in the soil air collected from above the water table. The liquid monitor will detect hydrocarbons floating on the water table.

From Tank Issues: Site Characterization for External Leak Monitoring



■ 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

Price: \$35 members; \$43.75 non-members

■ Processes Affecting Subsurface Transport of Leaking Underground Tank Fluids

Pub. No.: EPA 600-S-87-005
Pub. Date: 1987

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: National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161. 703 487-4650; (FAX) 703 321-8547

Order: PB87-201521

Price: \$19.50

■ 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

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Order: EPA 510-K-92-809

Price: Free

■ **Determining If Soils Contaminated With Petroleum Products Are Hazardous Wastes—Draft Report**

Pub. No.: EPA 510-R-92-803
Pub. Date: April 1988

Chances are the soil around a leaking UST is contaminated, but is the contamination considered hazardous waste? This technical report discusses how regulators determine the soil's classification and examines the implications of regulating these soils as hazardous. [76 pages]

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

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Order: EPA 510-R-92-803

Price: Free

■ **Cleanup of Releases from Petroleum USTs: Selected Technologies**

Pub. No.: EPA/530/UST-88/001
Pub. Date: April 1988

What determines the most effective and cost-efficient corrective action? Answers can vary with technology. This reference guide summarizes the principal components, design considerations, and costs of each technology. Each technology is evaluated based on effectiveness, cost, reliability, ease of operation, and limitations. This guide can help state and local UST program officials identify situations where one

corrective action might be preferred over another. Some background in chemistry or engineering is assumed. [110 pages]

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: 055-000-00272-0

Price: \$8.50

■ **Estimating Air Emissions from Petroleum UST Cleanups**

Pub. No.: EPA 510-K-92-901
Pub. Date: June 1989

Technical report about what state and local UST program officials need to know to estimate air emission rates of volatile organic compounds (VOCs) and benzene for corrective action plans. Discusses cleanup technology and some site-specific conditions such as soil type and contaminant concentrations. [33 pages]

Audience: State and local program officials; contractors and consultants

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-K-92-901

Price: Free

■ **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

Price: \$8.50

■ **Estimating Air Emissions from Petroleum UST Cleanups—Field Cards**

Pub. No.: EPA 510-K-92-902
Pub. Date: June 1989

Technical graphs illustrating the data in the report, *Estimating Air Emissions from Petroleum UST Cleanups*. Designed to help state and local UST program officials establish air emission rates of volatile organic compounds (VOCs) and benzene for corrective action plans. Covers the efficiency of soil and vacuum extraction and air stripping of gasoline and benzene. Instructions are included on the back of each graph,

and each is cross-referenced to the corresponding section of the companion report. [10 pages]

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

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-K-92-902

Price: Free

■ **Interim Guidance on Conducting Federal-Lead, Underground Storage Tank Corrective Actions for Petroleum Releases on Indian Lands**

Pub. No.: OSWER9610.9
Pub. Date: July 31, 1989

This guidance document is designed to provide direction for the initiation and coordination of Federal-lead corrective actions in response to petroleum releases from underground storage tank (UST) systems on Indian Lands. The guidance discusses how to determine whether Federal-lead corrective action is justified, and describes the documentation necessary for under-

taking Federal-lead UST corrective actions on Indian Lands. [12 pages]

Audience: UST Regional Program Managers; On-Scene Coordinators; state and local UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: OSWER9610.9

Price: 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA/530/UST-88/004

Price: Free

■ **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

Price: \$45 for set; \$10 prepaid for loan of set for 1 week; \$30 prepaid for video, \$5 prepaid for booklet

■ **Field Measurements—Dependable Data When You Need It**

Pub. No.: EPA/530/UST-90-003
Pub. Date: September 1990

Quick decisions require accurate data. Often public officials cannot wait for laboratory tests to determine if corrective action is necessary. Field measurements can save crucial time and resources by indicating the damage that a leak has caused and suggesting a corrective action approach. This guide highlights common pro-

cedures and equipment used. Also lists equipment manufacturers and distributors. [92 pages]

Audience: State and local UST inspectors; contractors and consultants

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

Order: 055-000-00368-8

Price: \$5.50

■ **Assessing UST Corrective Action Technology: A Scientific Evaluation of the Mobility and Degradability of Organic Contaminants in Subsurface Environments**

Pub. No.: EPA/600/2-91/053
Pub. Date: September 1991

This report summarizes the results from numerous scientific sources on the fate and transport of motor fuels leaked into the subsurface environment. It identifies the most important principles that govern the transport, partitioning, retention, and transformation of leaked motor fuels underground. The report also pro-

vides information, data, and equations that can be used to support quantitative assessments of pollutant fate and transport. [353 pages]

Audience: Contractors and consultants; environmental scientists and engineers

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA/600/2-91/053

Price: Free

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

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

■ **HyperVentilate Users Manual (v1.01 and v2.0): A Software Guidance System Created For Vapor Extraction Applications**

Pub. No.: EPA510-R-93-001
(Microsoft Windows/Spinnaker PLUS)
Pub. Date: January 1993

HyperVentilate is a user-friendly software tool that guides users through a structured thought process to determine if vapor extraction is appropriate at a specific site and, if so, how to operate and monitor the technology. The March 1992 version (v1.01) is accompanied by a user's manual, and is for use with 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 System (v2.0 or greater). The January 1993 version

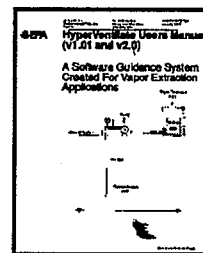
is accompanied by a manual that explains how to use both v1.01 (Macintosh) and v2.0 (IBM), and can be purchased with a diskette in either format. This manual explains the software support required for the IBM version from HyperCard, Microsoft Windows, and a "run time" version of Spinnaker PLUS (Windows 3.0 version). It also explains the "help cards" that are integral to the program and provides a sample problem for application of the program. [March 1992 version, 92 pages; January 1993 version, 83 pages]

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: 055-000-00403-0 (Macintosh disk)
055-000-00427-7 (IBM disk)

Price: \$17 (Macintosh disk)
\$22 (IBM disk)



■ 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

Price: \$75 plus \$3.00 shipping and handling

■ Controlling UST Cleanup Costs

Pub. No.: EPA 500-F-92-001 through 005
Pub. Date: May 1992

Series of five fact sheets makes the UST cleanup process easier to understand. Fact sheets provide petroleum UST operators with basic information on the cleanup process, including: *Hiring a Contractor*, *Negotiating the Contract*, *Interpreting the Bill*, *Managing the Process*, and *Understanding Contractor Code Words*. Can be ordered individually or as a five-piece set. Developed for state UST program officials to distribute in

response to inquiries from owners and operators. [2 pages each; 10 pages per set]

Audience: UST owners and operators

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 500-F-92-001 through 005

Price: Free

■ Technologies and Options for UST Corrective Actions: Overview of Current Practice

Pub. No.: EPA/542/R-92/010
Pub. Date: August 1992

This handbook presents the results of an OUST study that examines the current use of in-situ and ex-situ corrective action treatment technologies at UST sites; summarizes experience with these technologies; and outlines current state requirements that could affect the selection of these technologies. The handbook provides information about each technology, including its effectiveness, efficiency, costs, and limitations. [90 pages]

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

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA/542/R-92/010

Price: Free

■ **Federal Publication on Alternative and Innovative Treatment Technologies for Corrective Action and Site Remediation**

Pub. No.: EPA/542/B-92/001
Pub. Date: August 1992

This bibliography provides references for documents and reports that address technologies for the treatment of hazardous wastes. References in the bibliography cite publications from EPA, the U.S. Army, the U.S. Navy, the U.S. Air Force, the Department of Energy, and the Department of Interior. Information for ordering each document is also provided. [30 pages]

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

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA/542/B-92/001

Price: Free

■ **Accessing Federal Data Bases for Contaminated Site Clean-Up Technologies**

Pub. No.: EPA/542/B-92/002
Pub. Date: August 1992

This document provides information on accessing Federal data bases that contain data on innovative remediation technologies. Each database profile contains information on data elements, system uses, hardware and software requirements, how to access the database, and the telephone number of the contact for each system. [40 pages]

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

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA/542/B-92/002

Price: Free

■ **Filter Canisters: A New Method for Recovering Free Product**

Pub. No.: EPA 510-B-92-002
Pub. Date: November 1992

Filter canisters are a relatively inexpensive method to clean up contaminated sites by removing free product from groundwater. This leaflet briefly describes some applications for filter canisters, as well as the advantages and limitations associated with their use. [2 pages]

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

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-B-92-002

Price: Free



■ **Decision-Support Software for Soil Vapor Extraction Technology Application: *HyperVentilate***

Pub. No.: EPA/600/R-93/028
Pub. Date: February 1993

This document evaluates the use of an IBM-compatible version of *HyperVentilate*, a computer software that guides users through a structured thought process to determine if soil vapor extraction (SVE) is appropriate at a specific site. The document describes the basic model principles and computer software structures used to develop the program and presents a sample

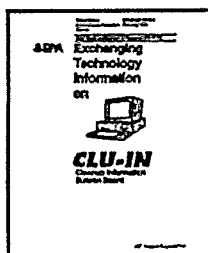
application of the software using data from an actual UST site. Windows and PLUS must be purchased separately. [159 pages]

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

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA/600/R-93/028

Price: Free (while supplies last)



■ **Exchanging Technology Information on CLU-IN: Cleanup Information Bulletin Board**

Pub. No.: EPA/542/F-93/001
Pub. Date: February 1993

This pamphlet describes CLU-IN, a computer bulletin board system designed for hazardous waste cleanup professionals who need current information on innovative technologies and remediation and would like to consult with other professionals online. CLU-IN is useful for anyone involved in the cleanup of Superfund, RCRA corrective action, and UST sites. Users include Federal and State personnel, consulting engi-

neers, technology vendors, remediation contractors, and individual citizens.

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

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA/542/F-93/001

Price: Free

■ ***HyperVentilate*: A Software Guidance System Created for Vapor Extraction Systems for Apple Macintosh and IBM PC-Compatible Computers**

Pub. No.: EPA 510-F-93-001
Pub. Date: May 1993

This leaflet describes *HyperVentilate*, a user-friendly computer software tool that guides users through a structured thought process to determine if vapor extraction technology is appropriate at a specific site and, if so, how to operate and monitor the technology. The leaflet also describes hardware needs and requirements for additional software support to run this program. [2 pages]

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

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-F-93-001

Price: Free

■ **Ground Water Currents: Developments in Innovative Ground Water Treatment**

Pub. No.: EPA/542/N-93/006
Pub. Date: June 1993

This monthly bulletin reports on innovative technologies that have been used to remediate ground water contamination and provides descriptions of recent publications that address ground water remediation technologies.

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

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA/542/N-93/006

Price: Free

■ **VISITT: Vendor Information System for Innovative Treatment Technologies**

Pub. No.: EPA 542-N-93-004
Pub. Date: June 1993

The VISITT (Vendor Information System for Innovative Treatment Technologies) database, available on computer diskette, was developed as part of a broad effort to promote the use of innovative treatment technologies for the cleanup of soil and ground water contaminated by hazardous and petroleum waste. VISITT provides current information on the availability, performance, and cost of innovative treatments. This bulletin summarizes the major innovative technologies currently available and provides lists of vendors who can provide those technologies; describes hardware and software

requirements for running the VISITT database; and provides ordering information for the diskettes and user manual that are necessary to operate VISITT. [8 pages]

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

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 542-N-93-004

Price: Free

■ **Remediation Technologies Screening Matrix and Reference Guide**

Pub. No.: EPA 542-B-93-005
Pub. Date: July 1993

The "Remediation Technologies Screening Matrix" is a one-page, easy-to-use matrix that summarizes the strengths and limitations of innovative, as well as conventional, technologies for the remediation of soils, sediments, and sludges; ground water; and air emissions/off-gases. The "Reference Guide" that accompanies this matrix provides detailed discussions of the information provided on the matrix, including definitions of the technologies that were rated

and descriptions of the factors that were used to rate the technologies (i.e., cost, availability, system reliability). [142 pages]

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

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 542-B-93-005

Price: Free

■ Cost Guide for Remediation Equipment at UST Sites

Pub. No.: EPA 510-R-93-004
Pub. Date: July 1993

This guide contains comprehensive, current information on rental costs for equipment used during the cleanup of petroleum hydrocarbons from soil and groundwater at leaking UST sites. Cost information is provided for individual components as well as for some systems (such as soil vapor extraction systems). The guide is intended to help state regulators and private firms estimate the costs of equipment used during the course of a cleanup. [51 pages]

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

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-R-93-004

Price: Free

■ Tech Trends: The Applied Technologies Journal for Superfund Removals and Remedial Actions and RCRA Corrective Actions

Pub. No.: EPA/542/N-93/007
Pub. Date: August 1993

This periodical provides updates on technological approaches to remediation of contaminated sites. Regular highlights include descriptions of new technologies and synopses of current publications that provide information about alternative technologies for remediation.

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

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: By title

Price: Free

■ An Overview of Underground Storage Tank Remediation Options

Pub. No.: EPA 510-F-93-029
Pub. Date: October 1993

This set of 13 fact sheets provides detailed information about technologies that can be used to remediate petroleum contamination in soil and groundwater. Both in-situ and ex-situ technologies are presented. For each technology, the fact sheets cover advantages and limitations of the technology; system components used; appropriate methods for wastestream treatment; parameters to monitor; time required for cleanup and achievable cleanup levels; and costs. [15 pages]

Audience: Owners and operators; Regional, state and local UST program officials; general public

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-F-93-029

Price: Free

■ **Demonstration Projects Spread the Use of Alternative Technologies**

Pub. No: EPA 510-K-93-001

Pub. Date: December 1993

Demonstration projects provide "hands-on" experience to state regulators and regional staff who may be unfamiliar with alternative technologies that can be used for petroleum cleanup. This short guide consolidates knowledge gained from existing demonstration projects and refers specifically to successful projects that have been conducted in EPA Region 5. Topics covered include "Getting Started," "Finding Funding," "Blazing an Administrative Trail," "Satisfying

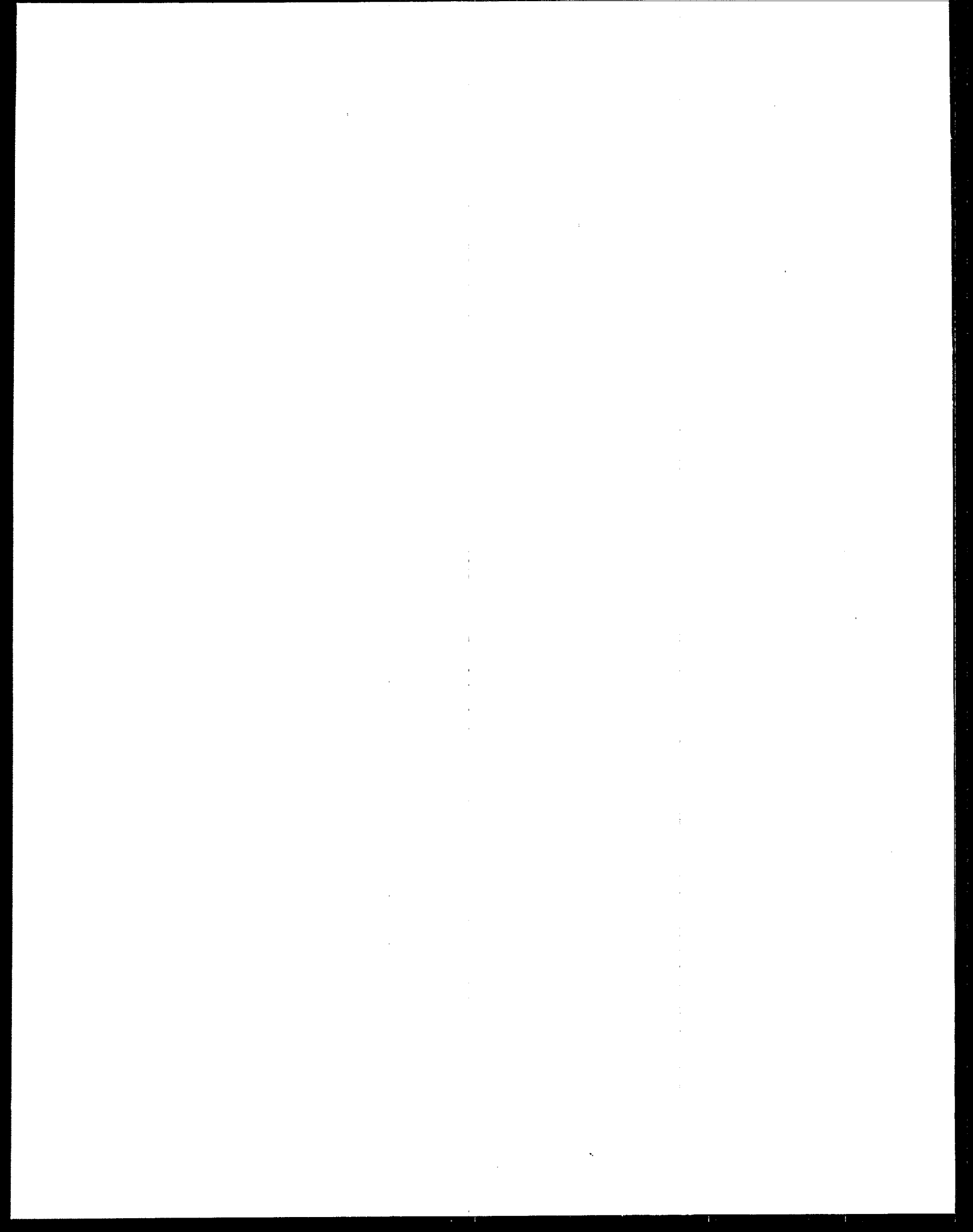
Information Needs," and "Educating Decisionmakers About the Alternative Technology." [2 pages]

Audience: Regional and state UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-K-93-001

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We would like your reactions to the
**"Guide to EPA Materials on
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Please take a few moments to respond to the statements below. Completion of this form is entirely voluntary. Your responses will help us to improve the next issue of the **Guide**.

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2	①	②	③	④	⑤	2
3	①	②	③	④	⑤	3
4	①	②	③	④	⑤	4
5	①	②	③	④	⑤	5
6	①	②	③	④	⑤	6
7	①	②	③	④	⑤	7
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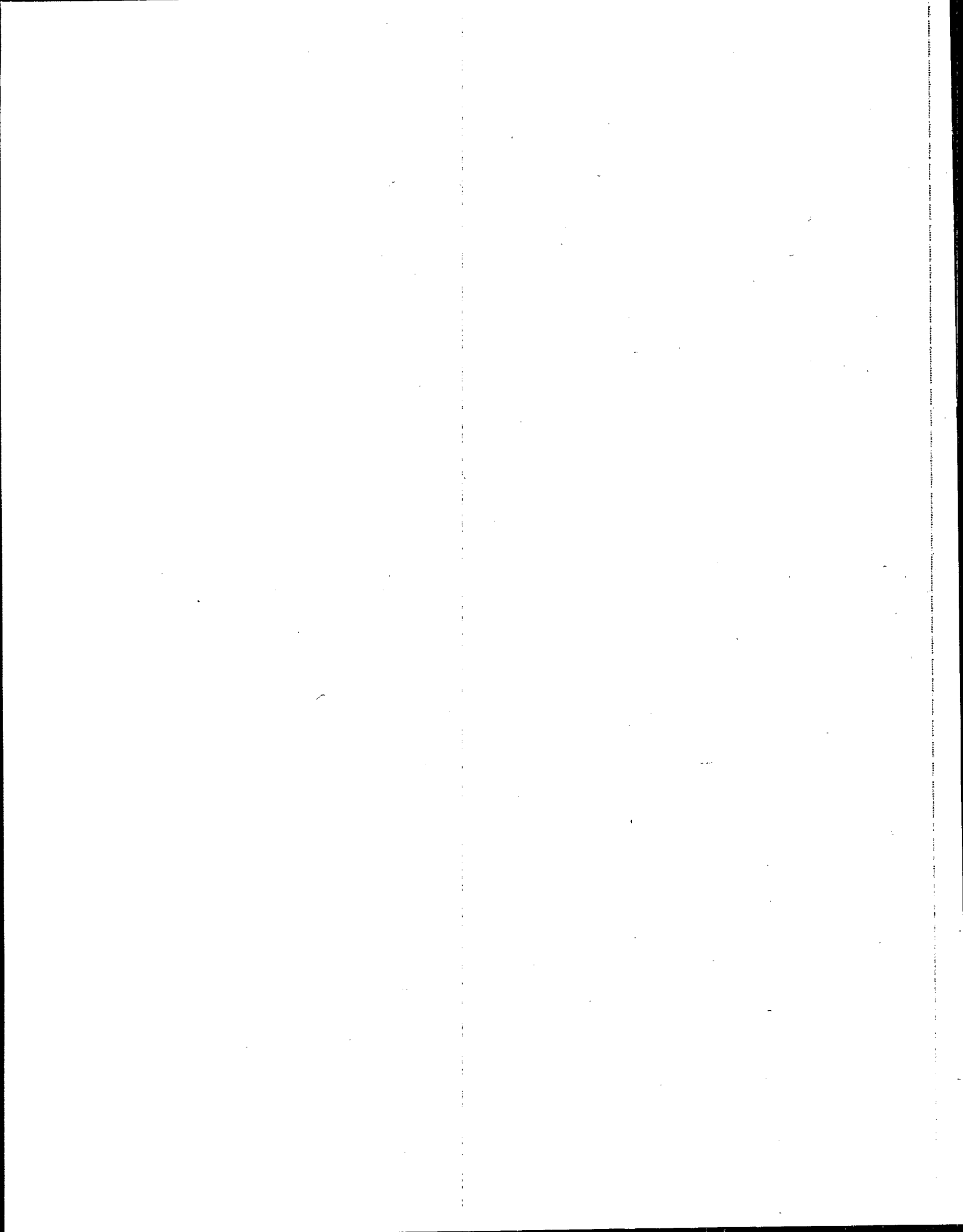
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Mail form to: U.S. Environmental Protection Agency, National Center for Environmental Publication and Information, P.O. Box 42419, Cincinnati, OH 45242-2419



■ **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: Jim Smalley, 7 Jackson Road, Scituate, MA 02066

Order: By title

Price: \$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

Price: \$16 plus \$3.00 shipping and handling

■ **Doing It Right II: Installing Required UST Equipment**

Pub. No.: EPA 999-Z-99-999
Pub. Date: May 1994

Federal rules require overfill and spill protection devices as well as piping leak detection on all new installations. This video, prepared as a companion to "Doing It Right: Proper Installation of Underground Storage Tanks and Piping," focuses on the installation of overfill prevention equipment, spill containment devices, observation wells, and piping leak detection systems.

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

Price: \$60.00 plus \$3.00 shipping and handling

■ **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: Jim Smalley, 7 Jackson Road, Scituate, MA 02066

Order: By title

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

■ **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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA/UST-91/018

Price: Free

■ **Health and Safety Training for Underground Storage Tank Inspectors: Instructor's Guide**

Pub. No.: EPA/910/B-92/001
Pub. Date: June 1992

This guide is designed for instructors who are presenting health and safety training course for UST inspectors. The Instructor's Guide includes a general discussion of the course, suggested activities, and suggested visuals. It should be used in conjunction with the "Student Guide." [21 pages]

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

Order From: Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954. FAX orders only: 202 512-2250

Order: 055-000-00421-8

Price: \$2.00

■ **Health and Safety Training for Underground Storage Tank Inspectors: Student's Guide**

Pub. No.: EPA/910/B-92/001
Pub. Date: June 1992

This training manual provides information to educate inspectors and others who work around USTs about potential health and safety hazards associated with USTs. The manual also teaches readers how to recognize, evaluate, and control these hazards. Topics covered include fires and explosions, oxygen depletion, confined spaces,

excavations, toxicity, and personal protective equipment. [274 pages]

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

Order From: Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954. FAX orders only: 202 512-2250

Order: 055-000-00420-0

Price: \$25.00

■ **Keeping It Clean: Making Safe and Spill-Free Motor Fuel Deliveries—Video**

Pub. No.: EPA 510-V-92-002
Pub. Date: December 1992

While delivering fuel to USTs, motor fuel delivery truck drivers find many types of equipment used to prevent air, soil, and groundwater contamination. This video describes the Stage I vapor recovery, overfill protection, and spill containment equipment motor fuel delivery truck drivers may encounter; and illustrates the key steps of a safe and clean delivery. [25 minutes]

Audience: Fuel delivery drivers; State and local UST program officials; owners and operators

Order From: This video may be purchased from: the American Petroleum Institute, Petroleum Equipment Institute, Petroleum Marketers Association of America, and Environmental Media Center. See "To Order Materials" for addresses.

Order: By title

Price: Suggested retail price is \$59.95; trade associations may offer a discount to their members.

■ **Health and Safety Training Interactive Video**

Pub. No.: EPA 510-F-93-015
Pub. Date: August 1993

Tank work is dangerous business. This interactive video course teaches workers to recognize, evaluate, and control hazards at UST work sites, and details what workers can do to protect themselves and others. It combines computer, laser disc, and touch-screen computer display technologies to create an effective teaching system that can be used on-site and on-demand with minimum supervision. It also provides

automatic recordkeeping of training and test scores.

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

Order From: ITC, 1 800 638-3757

Order: EPA-510-F-93-015

Price: Call ITC for details.

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

Pub. Nos.: 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 danger of explosion. Accompanied by an easy-to-read brochure that

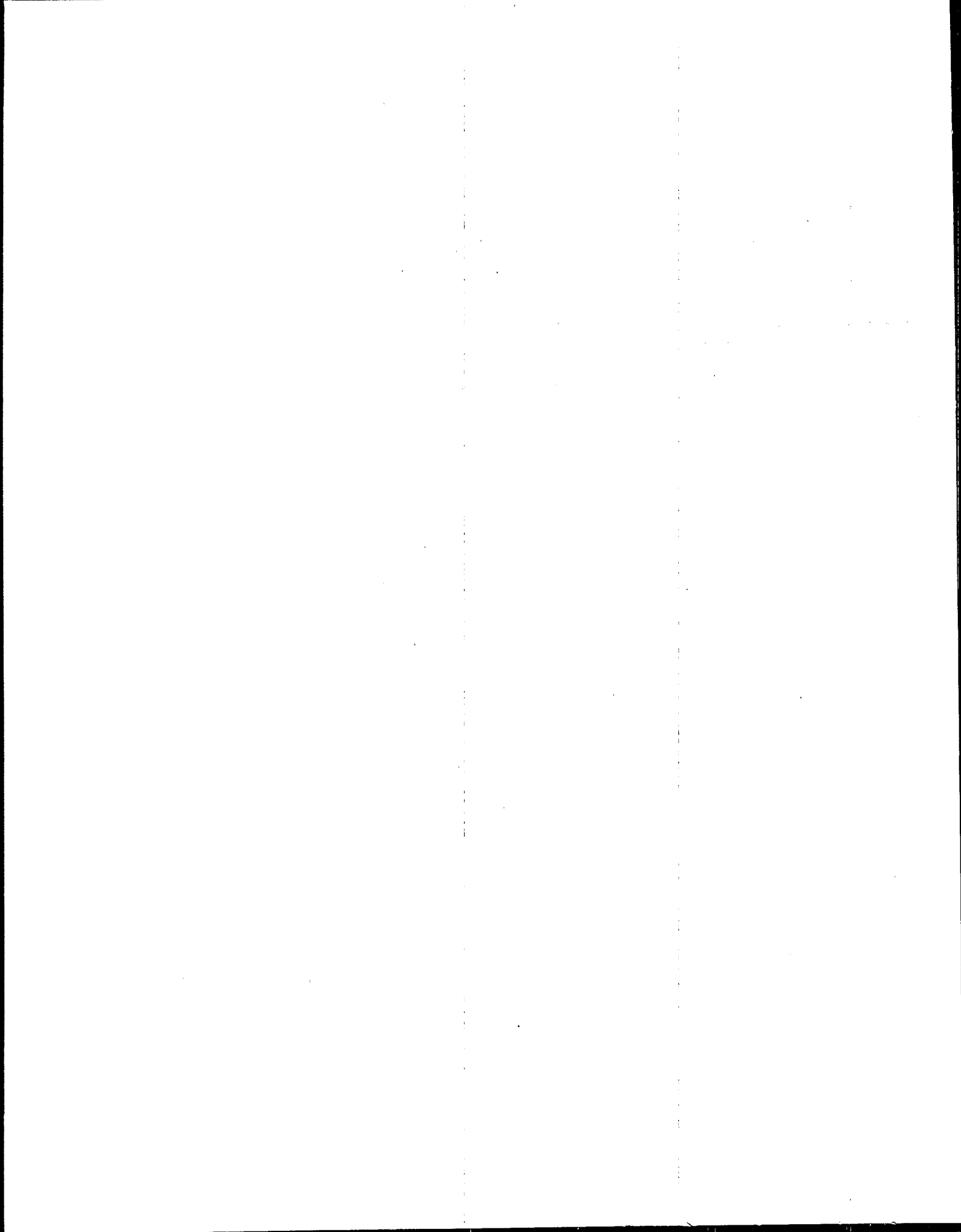
highlights the video's key messages. [30 minutes]

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

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



■ **Don't Wait Until 1998: Spill, Overfill, and Corrosion Protection for Underground Storage Tanks**

Pub. No: EPA 510-B-94-002

Pub. Date: April 1994

This booklet contains information that will help owners and operators of existing underground storage tank (UST) systems that were installed before December 22, 1988 to meet federal upgrade requirements. Basic upgrade requirements are described in detail, including spill, overfill and corrosion protection. Requirements for tank closure and rules specific to hazardous

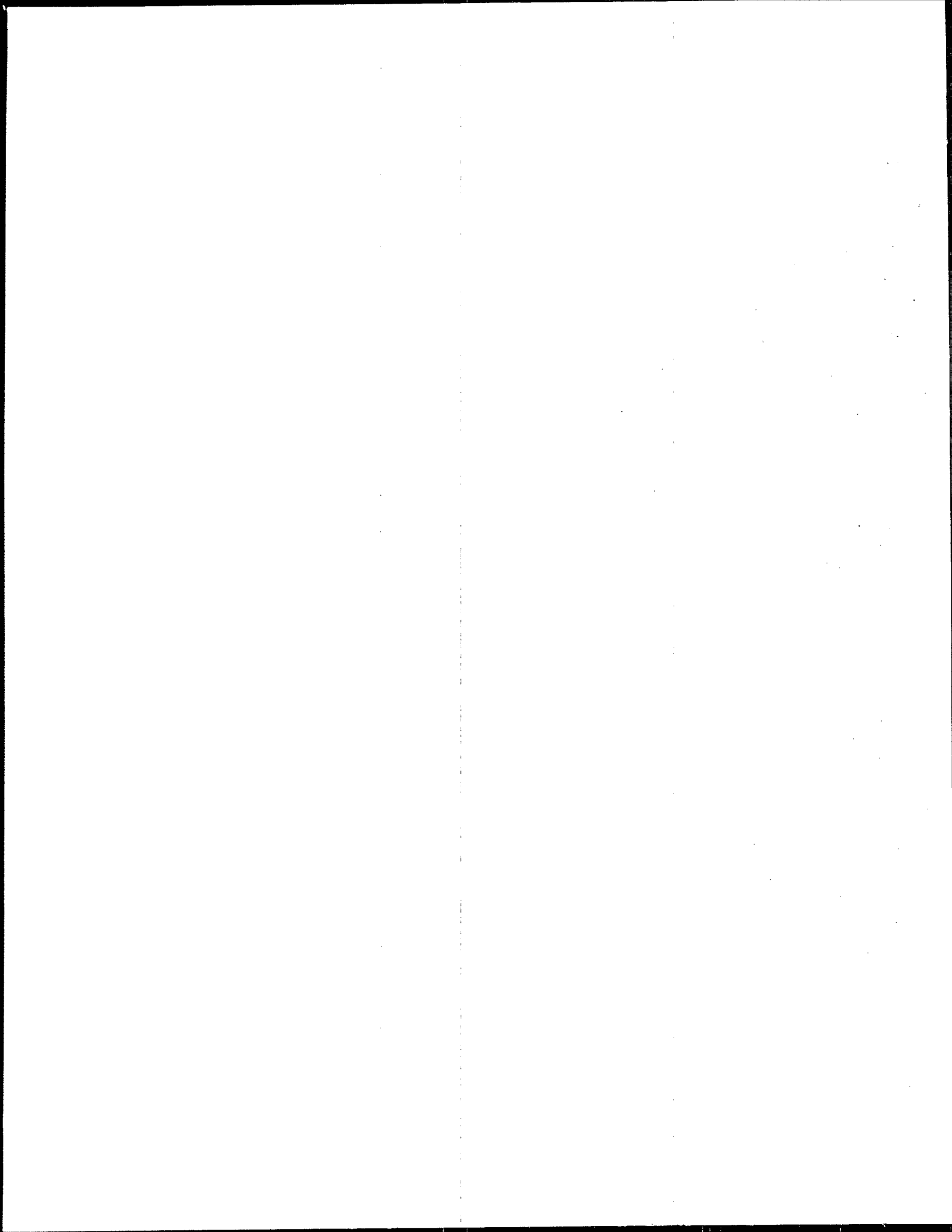
substance tanks are also provided. [16 pages]

Audience: Owners and operators; Regional, state and local UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-B-94-002

Price: 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 contractors, 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

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

Price: 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-R-92-802

Price: 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,

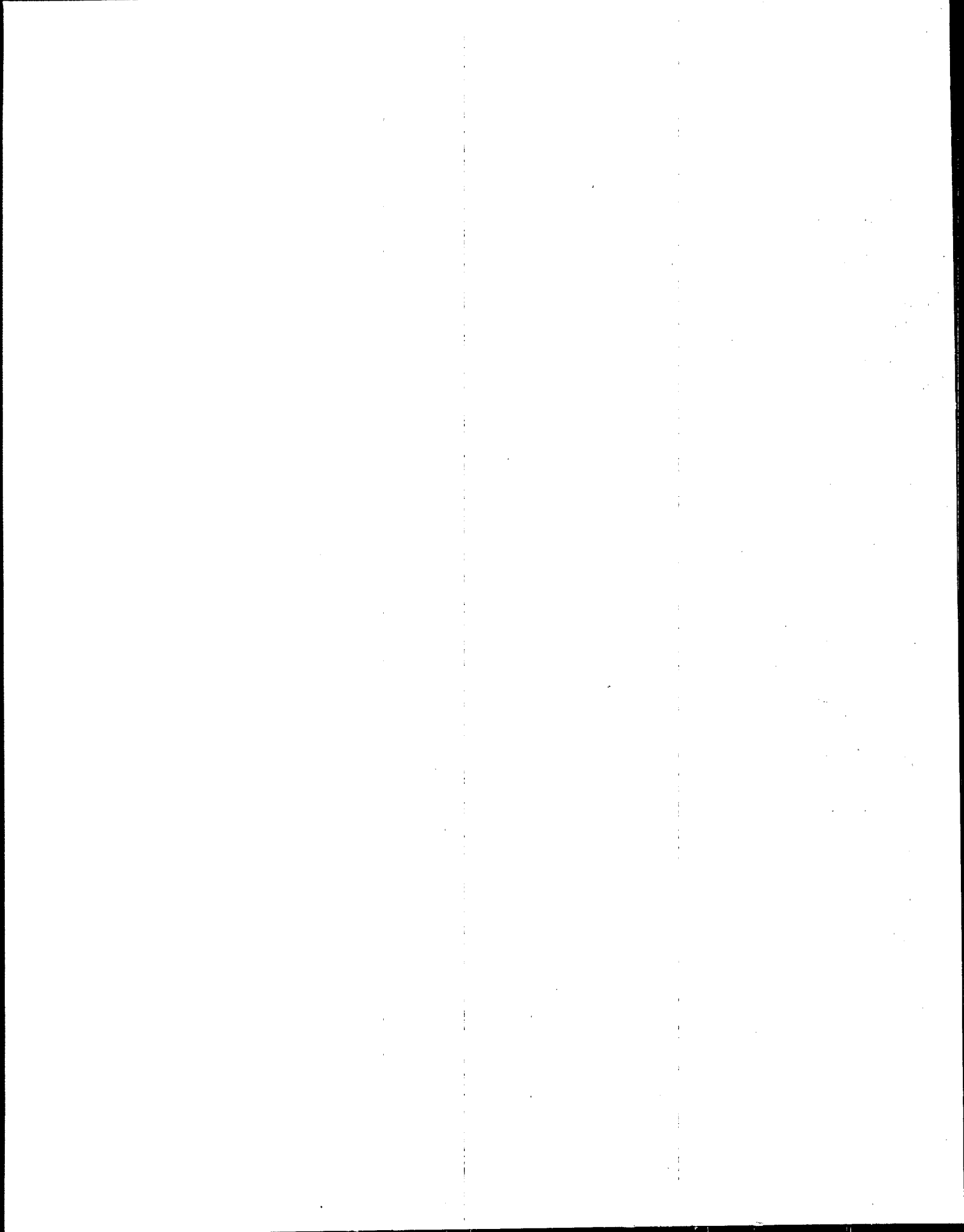
observations, and conclusions about the effects of corrosion. [44 pages]

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

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-K-92-802

Price: Free



■ **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. [2 pages]

Audience: General public; state and local UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-F-92-501

Price: Free

■ **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: A16404

Price: \$120

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

Pub. No.: EPA 510-V-92-803
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

Publication No
Longer Available

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

Pub. No.: EPA 510-F-92-961
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

■ **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: University of Wisconsin Extension Publications, Room 245, 30 N. Murray, Madison, WI 53715. 608 262-3346

Order: VG0059

Price: \$25.00

■ **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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA/530/UST-90/002

Price: 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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-K-92-003

Price: 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

■ **Information On Ordering Underground Storage Tank Materials**

Pub. No.: EPA 510-B-93-003
Pub. Date: March 1993

This brochure provides information on ordering a variety of materials on underground storage tanks (USTs), including sources of general information about UST leak detection and financial responsibility requirements, specific UST regulations, and technical reports about the causes of UST leaks. This document is currently being revised. Readers will receive the latest version. [2 pages]

Audience: Owners and operators; general public; Regional, state and local UST program officials

Order From: U.S. Environmental Protection Agency, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-B-93-003

Price: Free

Publication No. 510-K-92-003
Longer Available

■ Regional and State UST Program Contacts

Pub. No.: EPA 510-B-94-006
Pub. Date: July 1994

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, National Center for Environmental Publications and Information, P.O. Box 42419, Cincinnati, OH 45242-2419. FAX Orders Only: 513 891-6685

Order: EPA 510-B-94-006

Price: 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

Price: Current issue free; \$2.50 for back order for one issue prepaid; \$10.00 for all previous issues prepaid

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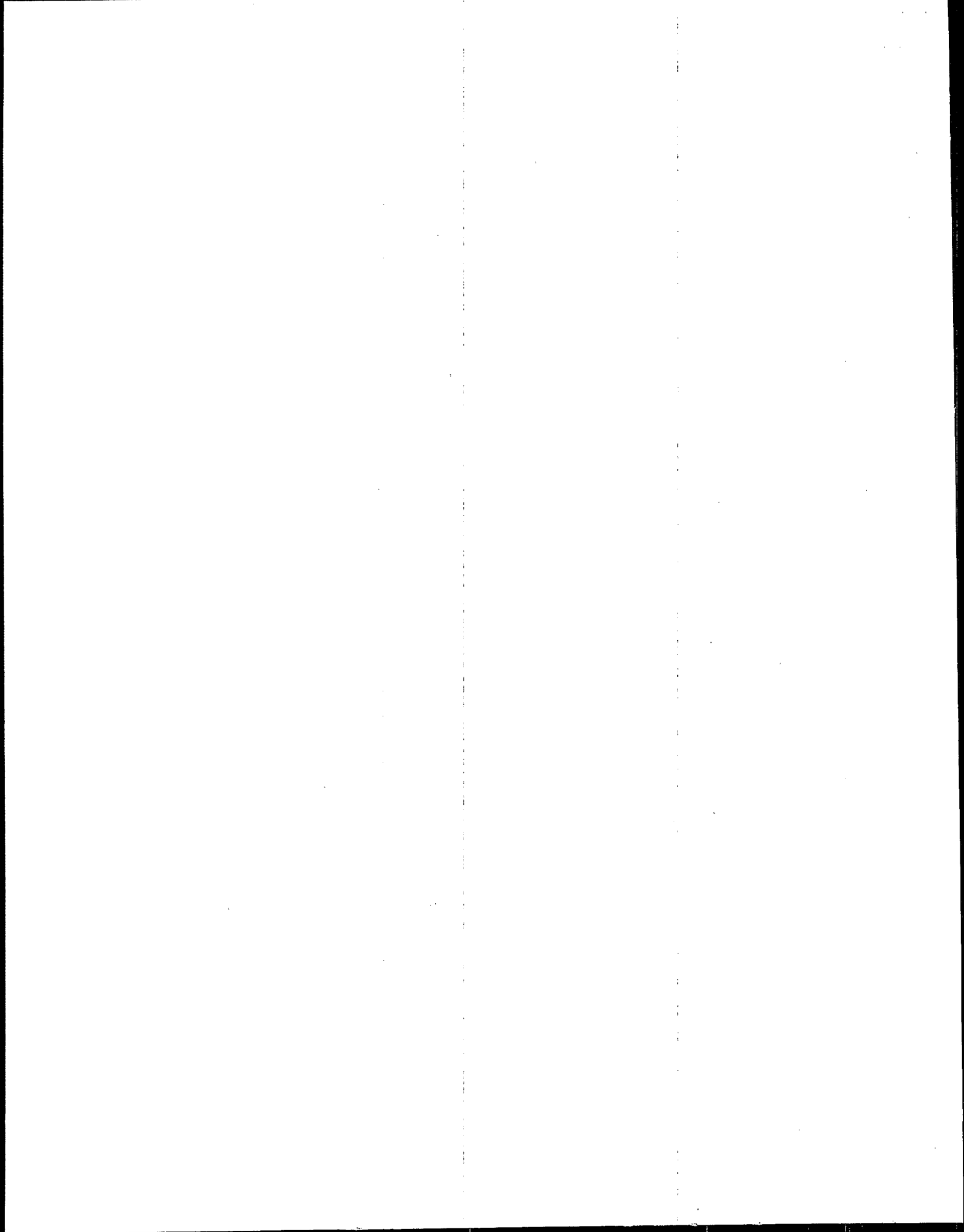
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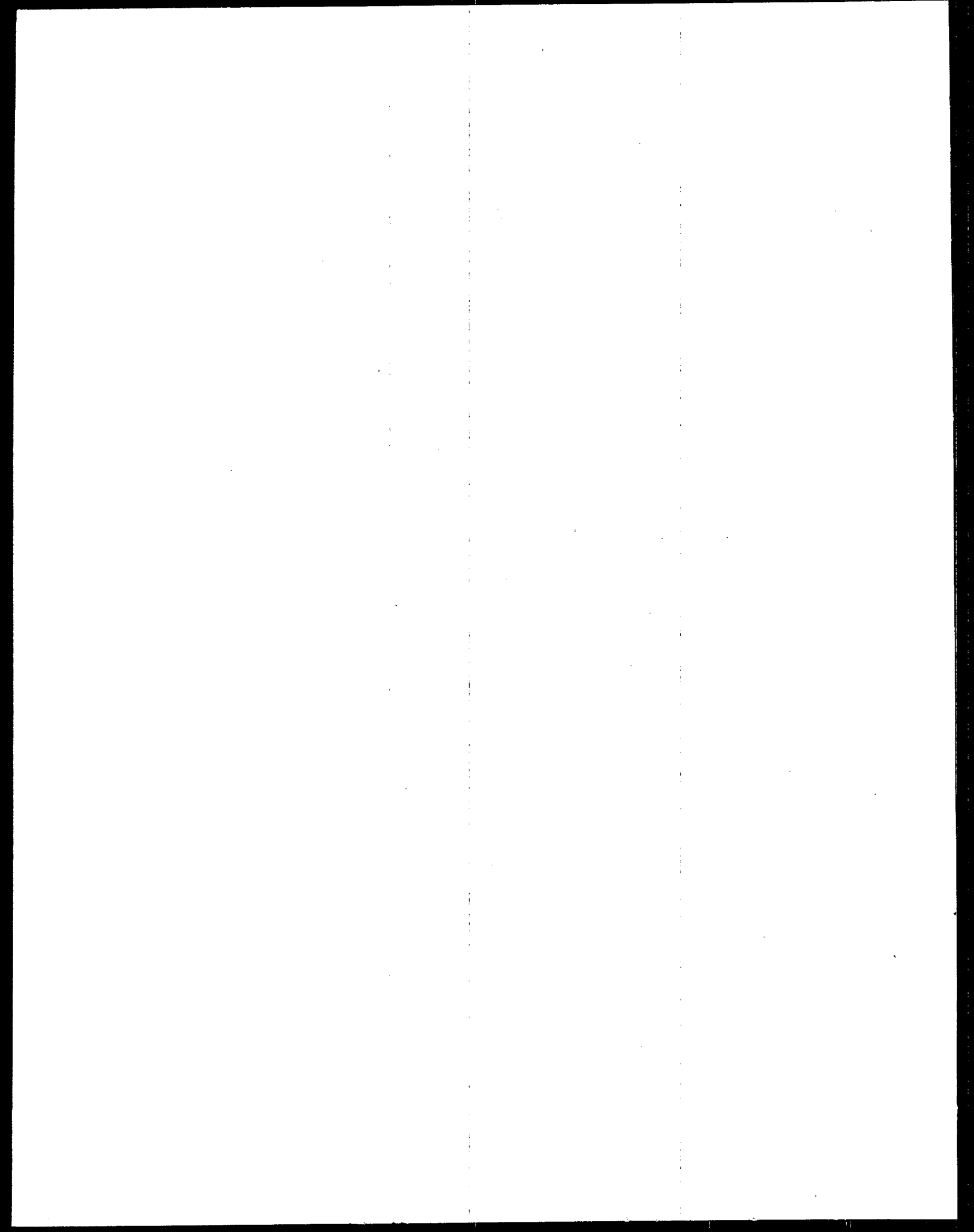
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