United States
Environmental Protection
Agency

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EPA

TECHNOLOGY TRANSFER

from
Office of Research and Development
Office of Technology Transfer & Regulatory Support

New Technology Transfer Publications

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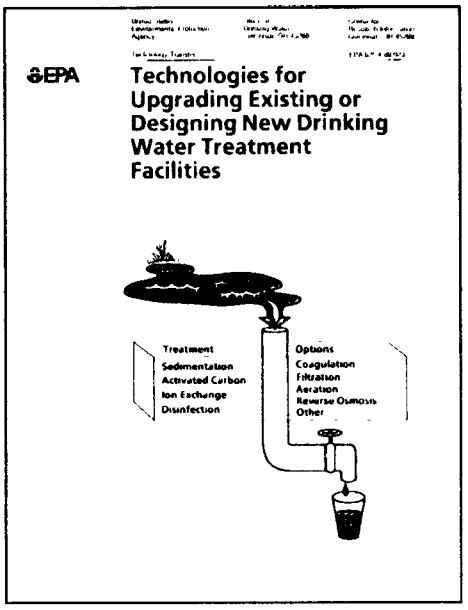
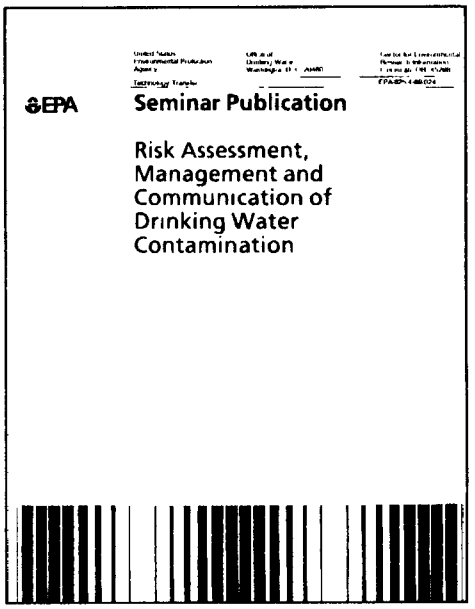


New Publication Focuses On Existing and New Drinking Water Treatment Facilities (625/4-89/023)

The publication compiles material presented at a series of workshops and helps to focus attention on the many treatment and disinfection decisions that will be facing both ground water and surface source systems over the next several years, as implementation of the 1986 Safe Drinking Water Act Amendments unfolds. Special effort was made during the individual technology area sessions to encourage discussion among attendees on their own particular situations and experience. Some of the workshops were cosponsored by local sections of the American Water Works Association and others by the Association of State Drinking Water Administrators.

Major sections discuss: filtration, disinfection, organic contaminant removal and current and emerging research. Considerable attention is given to upgrading existing systems and to the presentation of case histories for improving existing systems and the use of emerging technologies. The publication is intended for Federal, state and local drinking water regulatory personnel, public and private utility staff members actively engaged in the design or upgrading of their treatment systems, consulting engineers, and developers or marketers of drinking water treatment equipment.



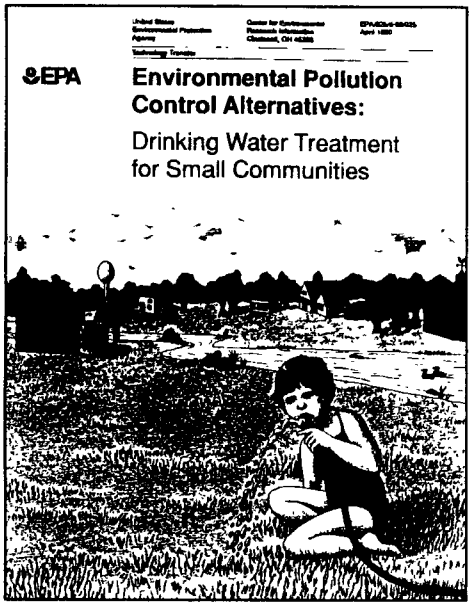
Seminar Publication Addresses Risk of Drinking Water Contamination (625/4-89/024)

This publication compiles material presented at a series of workshops, that were typically cosponsored by the local section of the American Water Works Association (AWWA) and U.S. EPA Regional Offices.

The publication is designed to provide uniform and consistent approaches and processes nationwide for those officials involved in determining, communicating about and managing drinking water contamination incidents.

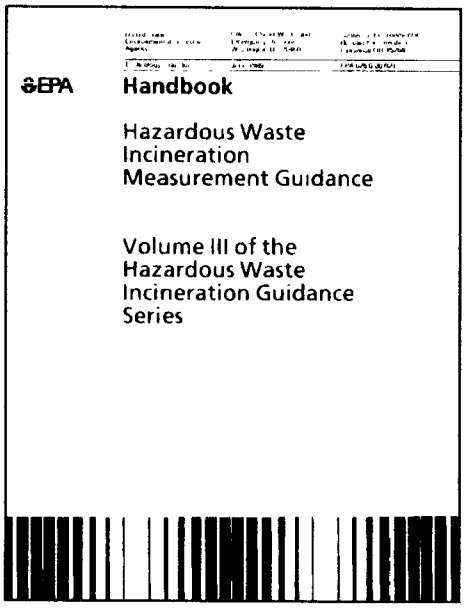
Principal topics include information on health effects of contaminants, an approach to risk assessment, risk communication, and abatement of lead, biological contaminations, particulates, organics, and radon; as well as corrosion control.

Current regulatory initiatives are discussed, and an update of EPA's Health Advisory Program is given. Included is a case study that illustrates the elements of risk assessment, communication and management. This publication will be of primary interest to Federal, state and local regulatory personnel who work in the health and technology areas related to drinking water treatment facilities, or who must respond to contamination incidents. It should also be of interest to consultants and drinking water utility staff actively engaged in the design, operation and/or upgrading of treatment systems.



New Document Discusses Drinking Water Treatment for Small Communities (625/5-90/025)

This document provides information for small system owners, operators, managers, and local decision makers, such as town officials, regarding drinking water treatment requirements and the treatment technologies suitable for small systems. It is not intended to be a comprehensive manual for water treatment. Rather, it is designed to give an overview of the problems a small system may face, treatment options that are available to solve specific problems, and resources that can provide further information and assistance.

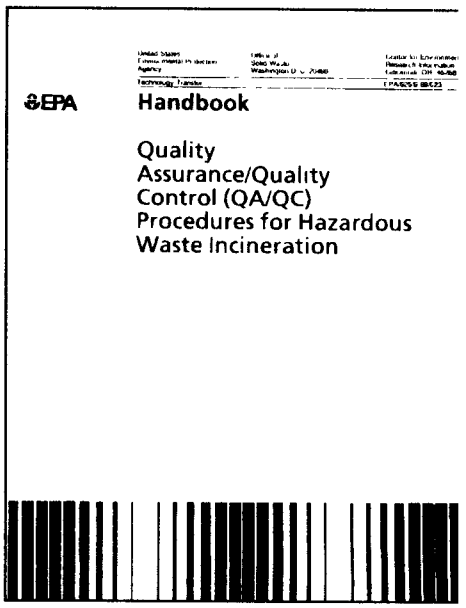


Hazardous Waste Incineration Guidance Discussed in New Handbook (625/6-89/021)

This publication, Volume III of the Hazardous Waste Incineration Guidance Series, contains general guidance to permit writers in reviewing hazardous waste incineration permit applications and trial burn plans. The handbook is a how-to document dealing with how incineration measurements are made.

Guidance is presented on commonly required parameters and methods for process monitoring, sampling and analysis aspects of hazardous waste trial burns, subsequent operation of the incinerator, and quality assurance/quality control associated with these activities.

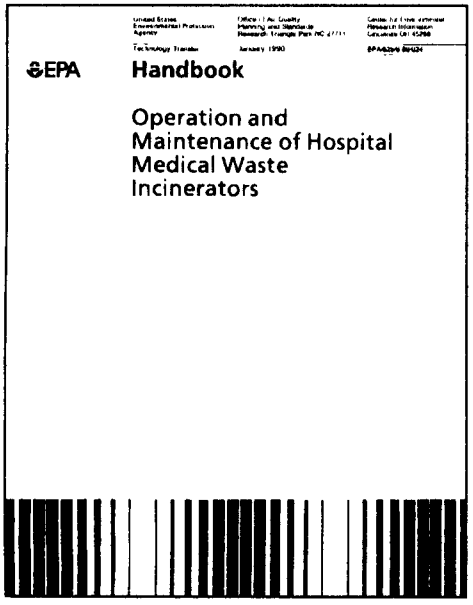
The major elements of incineration measurements are introduced through discussion and technical references. An all-inclusive list of measurements that should be required in every case is not provided, nor are complete descriptions of all pertinent methods. References are cited to provide more detailed information on measurements and methods. In addition, experts will need to be consulted on occasion.



Hazardous Waste Incineration Quality Assurance and Quality Control Procedures Presented in New Document (625/6-89/023)

Resource Conservation and Recovery Act regulations for hazardous waste incineration require trial burns by permit applicants. A Quality Assurance Project Plan (QAPjP) must accompany a trial burn plan with appropriate quality assurance/quality control procedures. Guidance on the preparation and review of QAPjPs, design of QA/QC procedures, and assessment of trial burn results is contained in this handbook. QA/QC procedures are defined for process monitoring, sampling, and analysis for both the initial trial burn and for later continuing operation of the incineration facility. Pollutant categories discussed are principal organic hazardous constituents (POHCs), metals, particulates, acid gases, and combustion gases.

Engineers, chemists, environmental scientists, facility personnel, and EPA staff at various levels should find this handbook useful. It has been written with the EPA or State permit writer's information needs in mind, but would be of considerable interest to the permit applicant.

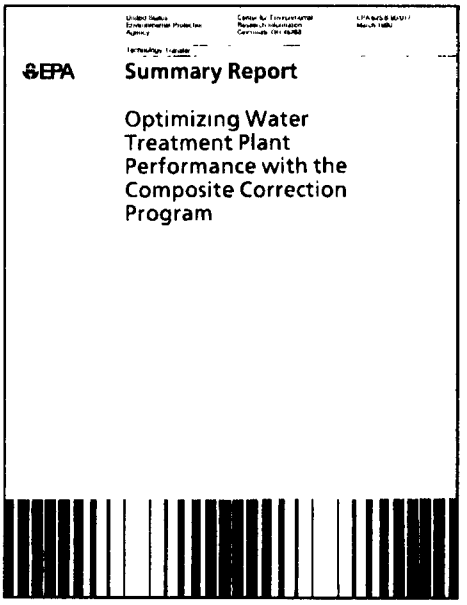


Handbook Discusses O&M of Hospital Waste Incinerators (625/6-89/024)

Proper operation of the incinerator will reduce the emissions of most of these pollutants. Air pollution control devices are available to further control these pollutants. Because of the national interest in hospital medical waste and the need for technology application, the Center for Environmental Research Information participated with the Control Technology Center in preparing this handbook.

This handbook is a general overview of proper operation and maintenance (O&M) procedures. It is a source of information on the O&M procedures that should be used on hospital waste incinerators and associated air pollution control equipment to minimize air emissions. Since manufacturers should provide specific O&M instructions and manuals for their equipment, this handbook should be viewed only as a supplement for proper O&M.

The handbook will prove helpful to Federal, state, and local regulatory agency personnel, hospital waste management personnel, hospital incinerator operators, and others associated with medical waste incinerators. Several pollutants, including potentially toxic ones, are emitted during the operation of medical waste incinerators.



Report Presents Procedures for Improving Water Treatment Plant Performance(625/8-90/017)

This document summarizes the results of an ongoing project to evaluate the utility of the Composite Correction Program approach to improving the performance of drinking water treatment facilities. This approach is a logical and systematic evaluation of a water treatment facility. It is made by a team with knowledge of drinking water treatment plant design, operation and operational trouble shooting in order to identify the unique combination of factors limiting performance. The facility's capacity, operational performance, maintenance program and administration are among the factors investigated.

Once the significant elements affecting a plant's performance have been identified, a program may be initiated to address these findings and thus assist the community in using its existing major unit processes to achieve the desired finished water quality.

The results of the 13 drinking water plant evaluations done to date are summarized as are two corrective action programs. The case studies focus on the potential for the approach to improve the performance of small systems in meeting the turbidity removal requirements of the Surface Water Treatment Rule.

Handbook: Asessing the Fate of Deep-Well-Injected Hazardous Waste (625/6-89/025a& b)

This handbook has been developed for use as a reference tool in evaluating the suitability of disposing of specific hazardous wastes in deep injection wells. Users of the document will get a better understanding of the factors that affect 1) geochemical waste-reservoir reactions of potential concern, 2) compatibility testing, and 3) assessment of the fate of injected wastes. Information is presented in an easily accessible format for examining a specific hazardous waste type or geologic regime that is under permitting consideration. The Handbook is printed in two volumes:

1. A Reference Guide (625/6-89/025a)
2. Summaries of Recent Research (625/6-89/025b)

Future Technology Transfer Meetings

Seminar Series: Incineration and Alternative Treatment of Energetic Compounds

Under RCRA, EPA is charged with the permitting of all hazardous waste handling units. In December 1987, EPA promulgated permitting standards ("Subpart X") applicable to miscellaneous waste management units not already covered under the existing regulations. These type units include geologic repositories, thermal treatment units (e.g., incinerators), or other alternative treatment units for waste propellants, explosives, and pyrotechnics (PEP).

The performance objectives of Subpart X require permit applicants to evaluate the potential environmental impacts of the unit or facility and to demonstrate that any releases from the unit will not adversely affect human health and the environment. However, specific technology standards or permit conditions are not easily defined. The primary objective of this seminar series is to provide information on all technology used to incinerate or treat PEP in miscellaneous units.

By attending these seminars, PEP manufacturers, handlers, users, consultants, regulators, and the general public will gain knowledge of incineration and alternative treatment methods for energetic compounds.

No fee is charged for attending this seminar. For registration information contact Denise Gaffey at 617-641-5317. For technical information contact Justice Manning at 513-569-7349.

Locations and dates for the seminars are as follow.

Seattle, WA	June 5-7, 1990
Chicago, IL	June 19-21, 1990
Kansas City, MO	June 26-28, 1990
Edison, NJ	July 17-19, 1990
Sacramento, CA	July 24-26, 1990
Philadelphia, PA	Sept. 4-6, 1990
Atlanta, GA	Sept. 11-13, 1990
Denver, CO	Sept. 25-27, 1990

Seminar Series: Design and Construction of RCRA/CERCLA Final Covers

These two-day seminars will present information on the proper design and construction of final covers for RCRA waste management facilities and CERCLA sites. Seminar attendees will gain a better understanding of regulatory requirements; cover components; construction practices, including quality assurance and quality control methods; characteristics of soils, geosynthetics and other materials; and hydrologic and water routing processes

These seminars are intended for federal and state personnel involved in evaluating and permitting RCRA hazardous waste facility and CERCLA site closures. In addition, these seminars will be valuable to the design and construction community.

No fee is charged for attending this seminar. The seminars will be held at the following locations:

Atlanta,, GA	July 17-18, 1990
Philadelphia, PA	July 18-19, 1990
Boston, MA	July 19-20, 1990
Dallas, TX	July 24-25, 1990
Kansas City, MO	July 25-26, 1990
Denver, CO	July 26-27, 1990
New York, NY	Aug. 13-14, 1990
Chicago, IL	Aug. 14-15, 1990
Seattle, WA	Aug. 15-16, 1990
San Francisco, CA	Aug. 16-17, 1990

For registration information, contact Trisha Hasch at 617-641-5321. For seminar content, contact Dan Murray at 513-569-7347.

Seminar Series: Organic Emissions from Treatment, Storage, and Disposal Facilities

The 1984 Hazardous and Solid Waste Amendments to the Resource Conservation and Recovery Act require standards for the monitoring and control of air emissions from hazardous waste treatment, storage, and disposal facilities (TSDFs) as necessary to protect human health and the environment. These regulations are being promulgated in three phases. The first phase covers organic emissions from process vents and equipment leaks at such facilities.

Hazardous waste facilities emit nearly 10 percent of all organic emissions from stationary sources nationwide. Organic emissions contribute to tropospheric ozone formation, a significant national problem for which EPA is pursuing controls. Organic emissions from TSDFs also may contain a variety of toxins such as carbon tetrachloride, acrylonitrile, and benzene. Accordingly, air emission regulations are being developed for numerous source categories at TSDF, including tanks, containers, certain surface impoundments, and fixation processes, as well as process vents associated with distillation/separation units, and equipment leaks. Control of ozone precursors and reduction of the toxicity potential of organic emissions are the goals of these first phase standards.

This series of ten seminars, cosponsored with the Office of Air Quality Planning and Standards, will present control options and regulation requirements applicable to TSDFs. Each seminar will be three days, with the third day for regulatory agency personnel only. Two of these seminars have been scheduled:

Boston, MA	Aug. 28-29, 1990
New York, NY	Sept. 11-12, 1990

The schedule for the remaining seminars may be obtained by contacting Peer Consultants, Inc. (513) 252-1222.

AWWA National Meeting and Convention

The Offices of Research and Development and Drinking Water will again cooperate in an exhibit at the June 17-21, 1990 American Water Works Association National Meeting in Cincinnati, Ohio. Approximately 11,000 state and utility personnel along with consultants, manufacturers and academicians regularly attend this meeting.

As part of the exhibit, ORD and ODW display and make available to participants many publications that are pertinent to the Agency's Drinking Water Program. At last year's meeting almost 5,000 ORD publications were requested by visitors to the booth.

Information Available From The Superfund Innovative Technology Evaluation (SITE) Program

The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 provided for federa funding to respond to releases of hazardous substances to air, water or land The Superfund Innovative Technology Evaluation (SITE) Program resulted from the Superfund Amendments and Reauthorization Act of 1986 (SARA) which added an "Alternative or Innovative Treatment Technology Research and Demonstration Program" to Title III of CERCLA.

The SITE Demonstration Program, conducted jointly by EPA's Office of Research and Development and Office of Solid Waste and Emergency Response, has as its major thrust the documentation of reliable performance and cost information for innovative alternative technologies. With this information new technologies may be more adequately considered for cleanup of Superfund sites The demonstration projects identify limitations of the technology, the need for pre- or post-treatment of wastes, applicable wastes and waste media, potential operating problems, and the approximate cost of applying the technology. Currently, the program is beginning is fifth year with 38 active projects Eight of these projects involve solidification/stabilization, nine concentrate on thermal processes, five are biological processes, and the remaining 16 include physical/chemical separation and treatment techniques.

Reports have been published for completed demonstration projects:

U.S Environmental Protection Agency, *Technology Evaluation Report: SITE Program Demonstration Test, Shirco Infrared Incineration System Peak Oil, Brandon, Florida - Volume 1*, Cincinnati, Ohio, September 1988, EPA/540/5-88/002a.

U.S. Environmental Protection Agency, *Technology Evaluation Report: SITE Program Demonstration Test, Shirco Infrared Incineration System at the Rose Township Demode Road Superfund Site - Volume 1*, Cincinnati, Ohio, April 1989, EPA/540/5-89/007a.

U.S. Environmental Protection Agency, *Shirco Infrared Incineration System: Applications Analysis Report*, Cincinnati, Ohio, June 1989, EPA 540/A5-89/010.

U.S. Environmental Protection Agency, *Technology Evaluation Report: SITE Program Demonstration Test - The American Combustion Pyretron Thermal Destruction System at the U.S. EPA's Combustion Research Facility*, Cincinnati, Ohio, April 1989, EPA/540/5-89/008.

U.S. Environmental Protection Agency, *Technology Evaluation Report: SITE Program Demonstration Test, HAZCON Solidification, Douglassville, Pennsylvania*, Cincinnati, Ohio, March 1989, EPA/540/5-89/001.

U.S. Environmental Protection Agency, *HAZCON Solidification Process, Douglassville, PA: Applications Analysis Report*, Cincinnati, Ohio, May 1989, EPA 540/A5-89/001.

U.S. Environmental Protection Agency, *Technology Evaluation Report: SITE Program Demonstration Test, Terra Vac In Situ Vacuum Extraction System, Groveland, Massachusetts - Volume 1*, Cincinnati, Ohio, April 1989, EPA/540/5-89/003a.

U.S. Environmental Protection Agency, *Terra Vac In Situ Vacuum Extraction System: Applications Analysis Report*, Cincinnati, Ohio, July 1989, EPA 540/A5-89/003.

U.S. Environmental Protection Agency, *Technology Evaluation Report: SITE Program Demonstration Test, International Waste Technologies In Situ Stabilization/Solidification, Hialeah, Florida*, Cincinnati, Ohio, August 1989, EPA/540/5-89/004a

U.S. Environmental Protection Agency, *Technology Evaluation Report: CP Systems Organics Extractor System, New Bedford, Massachusetts*, Cincinnati, Ohio, January 1990, EPA/540/5-90/002.

U.S. Environmental Protection Agency, *Technology Evaluation Report: SITE Program Demonstration Test, Soliditech, Inc. Solidification/Stabilization Process - Volume 1*, Cincinnati, Ohio, February 1990, EPA/540/5-89/005a.

U.S. Environmental Protection Agency, *Technology Evaluation Report: SITE Program Demonstration of the Ultrox International Ultraviolet Radiation/Oxidation Technology*, Cincinnati, Ohio, January 1990, EPA/540/5-89/012.

In addition, the following program summary document is also available:

U.S. Environmental Protection Agency, *The Superfund Innovative Technology Evaluation Program: Technology Profiles*, Cincinnati, Ohio, November 1989, EPA/540/5-89/013.

U.S. Environmental Protection Agency, *The Superfund Innovative Technology Evaluation Program, Progress and Accomplishments Fiscal Year 1989, A Third Report to Congress.* Cincinnati, Ohio, March 1990, EPA/540/5-90/001.

Technology Transfer Meetings

Meeting	Title	Date(s)	Location	Contact	Phone No.
Seminar	Incineration and Alternative Treatment of Energetic Compounds	June 5-7, 1990 June 19-21, 1990 June 26-28, 1990 July 17-19,1990 July 24-26, 1990 September 4-6, 1990 September 11-13, 1990 September 25-27, 1990	Seattle, WA Chicago, IL Kansas City, MO Edison, NJ Sacramento, CA Philadelphia, PA Atlanta, GA Denver, CO	Denise Gaffey (registration) Justice Manning (content)	617-641-5317 513-569-7349 FTS 684-7349
Seminar	Design and Construction of RCRA/CERCLA Final Covers	July 17-18, 1990 July 18-19, 1990 July 19-20, 1990 July 24-25, 1990 July 25-26, 1990 July 26-27, 1990 August 13-14, 1990 August 14-15, 1990 August 15-16, 1990 August 16-17, 1990	Atlanta, GA Philadelphia, PA Boston, MA Dallas, TX Kansas City, MO Denver, CO New York, NY Chicago, IL Seattle, WA San Francisco, CA	Trisha Hasch (registration) Dan Murray (content)	617-641-5321 513-569-7347 FTS 684-7347
Seminar	Organic Emissions from Treatment, Storage, and Disposal Facilities	August 28-29, 1990 September 11-12, 1990 (Others to be announced)	Boston, MA New York, NY	Peer Consultants (registration) Justice Manning (content)	513-252-1222 513-569-7349 FTS 684-7349

REQUEST FOR TECHNOLOGY TRANSFER MATERIAL

PROCESS DESIGN MANUALS

Phosphorus Removal (Sept. 1987)	625/1-87/001 ☐
Onsite Wastewater Treatment and Disposal Systems (Oct. 1980)	625/1-80/012 ☐
Land Treatment of Municpal Wastewater (Oct. 1981)	625/1-81/013 ☐
Supplement for Land Treatment of Municipal Wastewater (Oct. 1984)	625/1-81/013a ☐
Dewatering Municipal Wastewater Sludges (Sept. 1987)	625/1-87/014 ☐
Municipal Wastewater Stabilization Ponds (Oct. 1983)	625/1-83/015 ☐
Land Application of Municipal Sludge (Oct. 1983)	625/1-83/016 ☐
Electrostatic Precipitator Operation and Maintenance (Sept. 1985)	625/1-85/017 ☐
Odor and Corrosion Control in Sanitary Sewerage Systems and Treatment Plants (Oct. 1985)	625/1-85/018 ☐
Lime/Limestone FGD Inspection and Performance Evaluation Manual (Oct. 1985)	625/1-85/019 ☐
Fabric Filter Operation and Maintenance (June 1986)	625/1-86/020 ☐
Municipal Wastewater Disinfection (Oct. 1986)	625/1-86/021 ☐
Constructed Wetlands and Aquatic Plant Systems for Municipal Wastewater Treatment (Oct. 1988)	625/1-88/022 ☐
Fine Pore Aeration Systems (Oct. 1989)	625/1-89/023 ☐

TECHNICAL CAPSULE REPORTS

Particulate Control by Fabric Filtration on Coal-Fired Industrial Boilers	625/2-79/021 ☐
Bahco Flue Gas Desulfurization and Particulate Removal System	625/2-79/022 ☐
First Progress Report: Physical Coal Cleaning Demonstration at Homer City, PA	625/2-79/023 ☐
Acoustic Monitoring to Determine the Integrity of Hazardous Waste Dams	625/2-79/024 ☐
Disposal of Flue Gas Desulfurization Wastes: Shawnee Field Evaluation	625/2-80/028 ☐
Adipic Acid-Enhanced Lime/Limestone Test Results at the EPA Alkali Scrubbing Test Facility	625/2-82/029 ☐
Benefits of Microprocessor Control of Curing Ovens for Solvent Based Coatings	625/2-84/031 ☐

SEMINAR PUBLICATIONS

Permitting Hazardous Waste Incinerators	625/4-87/017 ☐
Meeting Hazardous Waste Requirements for Metal Finishers	625/4-87/018 ☐
Transport and Fate of Contaminants in the Subsurface	625/4-89/019 ☐
Corrective Actions - Technologies and Applications	625/4-89/020 ☐
Solvent Waste Reduction Alternatives	625/4-89/021 ☐
Requirements for Hazardous Waste Landfill Design, Construction and Closure	625/4-89/022 ☐
• Technologies for Upgrading Existing or Designing New Drinking Water Treatment Facilities	625/4-89/023 ☐
• Risk Assessment, Management and Communication of Drinking Water Contamination	625/4-89/024 ☐

BROCHURES

Environmental Pollution Control Alternatives: Reducing Water Pollution Control Costs - Electroplating	625/5-85/016 ☐
Nitrogen Oxide Control for Stationary Combustion Sources	625/5-86/020 ☐
User's Guide: Emission Control Technologies/Emission Factors for Unpaved Road Fugitive Emissions	625/5-87/022 ☐
• Environmental Pollution Control Alternatives: Drinking Water Treatment for Small Communities	625/5-90/025 ☐

HANDBOOKS

Septage Treatment and Disposal (Oct. 1984)	625/6-84/009 ☐
Permit Writers Guide to Test Burn Data: Hazardous Waste Incineration (Sept. 1986)	625/6-86/012 ☐
Stream Sampling for Waste Load Allocation Applications (Sept. 1986)	625/6-86/013 ☐
Control Technologies for Hazardous Air Pollutants (Sept. 1986)	625/6-86/014 ☐

HANDBOOKS (continued)

Ground Water (March 1987)	625/6-87/016 ☐
Retrofitting POTWs for Phosphorus Removal in the Chesapeake Bay Drainage Area (Sept. 1987)	625/6-87/017 ☐
Guide to Technical Resources for the Design of Land Disposal Facilities (Dec. 1988)	625/6-88/018 ☐
Guidance on Setting Permit Conditions and Reporting Trial Burn Results (Jan. 1989)	625/6-89/019 ☐
Retrofitting POTWs (July 1989)	625/6-89/020 ☐
• Hazardous Waste Incineration Measurement Guidance (June 1989)	625/6-89/021 ☐
Stabilization/Solidification of CERCLA and RCRA Wastes (July 1989)	625/6-89/022 ☐
• Quality Assurance/Quality Control (QA/QC) Procedures for Hazardous Waste Incineration (Jan. 1990)	625/6-89/023 ☐
• Operation and Maintenance of Hospital Waste Incinerators (January 1990)	625/6-89/024 ☐
• Assessing the Geochemical Fate of Deep-Well Injected Hazardous Waste (June 1990)	
Reference Guide	625/6-89/025a ☐
Summaries of Recent Research	625/6-89/025b ☐

INDUSTRIAL ENVIRONMENTAL POLLUTION CONTROL MANUAL

Waste Minimization Opportunity Assessment (July 1988)	625/7-88/003 ☐

SUMMARY REPORTS

Sulfur Oxides Control Technology Series: FGD Dual Alkali Process	625/8-80/004 ☐
Control and Treatment Technology for the Metal Finishing Industry Series: Ion Exchange	625/8-81/007 ☐
Control and Treatment Technology for the Metal Finishing Industry Series: In-Plant Changes	625/8-82/008 ☐
Sulfur Oxides Control Technology Series: FGD Spray Dryer Process	625/8-82/009 ☐
Fine Pore (Fine Bubble) Aeration Systems	625/8-85/010 ☐
Technology Assessment of Sequencing Batch Reactors	625/8-86/011 ☐
Causes and Control of Activated Sludge Bulking and Foaming	625/8-87/012 ☐
Biomonitoring to Achieve Control of Toxic Effluents	625/8-87/013 ☐
Compendium of Technologies Used in Treatment of Hazardous Wastes	625/8-87/014 ☐
Biomonitoring for Control of Toxic Effluent Discharges to the Marine Environment	625/8-89/015 ☐
In-Vessel Composting of Municipal Wastewater Sludge	625/8-89/016 ☐
• Optimizing Water Treatment Plant Performance with the Composite Correction Program	625/8-90/017 ☐

EXECUTIVE BRIEFINGS

Injection Well Mechanical Integrity	625/9-89/007 ☐
Experiences in Incineration Applicable to Superfund Site Remediation	625/9-88/008 ☐
Volumetric Tank Testing: An Overview	625/9-89/009 ☐

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ENVIRONMENTAL REGULATIONS AND TECHNOLOGY PUBLICATIONS

The Electroplating Industry	625/10-85/001 ☐
Use and Disposal of Municipal Wastewater Sludge	625/10-84/003 ☐
Fugitive VOC Emissions in the Synthetic Organic Chemicals Manufacturing Industry	625/10-84/004 ☐
The National Pretreatment Program	625/10-86/005 ☐
Control of Pathogens in Municipal Wastewater Sludge	625/10-89/006 ☐

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