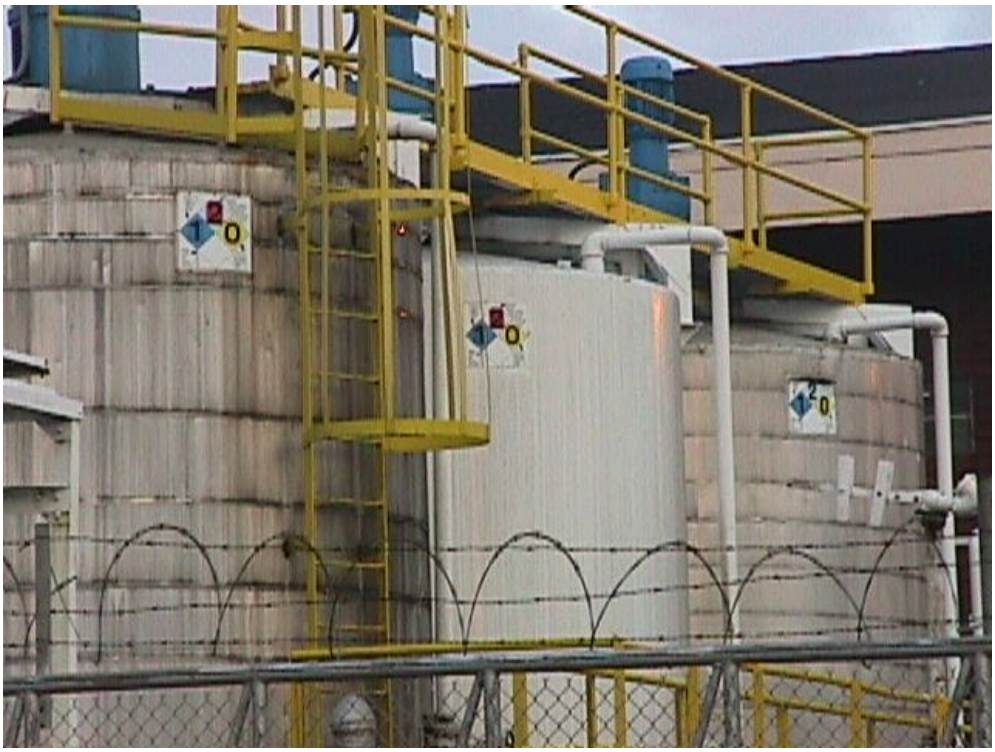
United States Environmental Protection Agency

Enforcement and Compliance Assurance (2224A)

EPA-305-B-98-010
September 1998

Chemical Industry Compliance Improvement Tool



EPA Office of Compliance
Chemical Industry Branch

NOTICE:

This document has been developed to provide a directory of resources to people working in or regulating the chemical industry. The document identifies governmental and nongovernmental resources that may help regulators and the regulated community understand environmental regulations applicable to the chemical sector. The use of this document or any resource in the document is not intended to assure compliance with or replace federal or state regulations.

EPA does not make any guarantee or assume any liability with respect to either the use of any information or recommendations contained in this document or the resources listed in the directory. Regulated entities requiring additional information or advice should consult with the EPA or their state agency.

Nongovernmental sources are included in this directory for one of two reasons: either they were written in conjunction with or reviewed by EPA, or EPA believed that particular areas of interest to this sector were not adequately represented in the directory by governmental resources. For example, EPA has not published guidance documents for the chemical industry on environmental management systems, so those sources available and known to the chemical industry sector were included. The use of nongovernmental resources provided in this directory is not to be viewed as an endorsement of these resources by EPA.

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PURPOSE

U.S. EPA's Office of Enforcement and Compliance Assurance (OECA) has developed the *Chemical Industry Compliance Improvement Tool* (CIT), a directory of environmental regulatory resources. The CIT includes both governmental and nongovernmental resources that may help the chemical industry sector and regulators assess and improve compliance with applicable regulations. Specifically, the document provides resources that explain some of the requirements under the major federal environmental statutes and provide approaches to improving compliance through self-assessments, auditing and pollution prevention.

SELECTING RESOURCES

The CIT is divided into eight chapters of which five address a specific statute and the remaining three address methods to assess and improve compliance. Within each chapter, the sources are grouped by subject matter and listed alphabetically under the ?type of information? (e.g., checklists, hotlines, on-line access). Icons are located on the outside margins of each page to help locate specific types of information. Below is a compilation of icons used throughout the document:

	Checklists		Software
	Documents		Training
	Electronic mailing lists		Videos
	Hotlines	NEW	Documents published in 1997 or 1998
	On-line access		

LOCATING DOCUMENTS

In general, each resource entry for documents contains a title, author, date published, identification number, abstract, and a source for obtaining each resource. Acronyms included in this information identify sources from where documents can be requested, along with document numbers for use in placing orders. Below is a list of the acronyms used throughout this document.

Call No.	Number used by libraries
GPO	Government Printing Office
ISBN	International Standard Book Number
LCCN	Library of Congress Control Number
NCEPI	National Center for Environmental Publications and Information
NEIS	National Environmental Information Service
NTIS	National Technical Information Service
NTIS No.	Number used by National Technical Information Service to order material
OCLC	Online Computer Library Center; designation used for U.S. EPA internal interlibrary loan purposes
Report No.	Usually the number given to a document by the U.S. EPA; sometimes an internal number given by the company who wrote the document
U.S. EPA	United States Environmental Protection Agency

Because some of the documents are available through more than one source, you should understand the set-up and request procedures for each available source. The following pages describe the key sources.

Government Printing Office (GPO): GPO prints and distributes 20,000 publications from the three branches of government. The information is free of charge and can be requested by telephone, fax, online service, or mail. For more information or to request a document contact:

Tel: (202) 512-1800
Fax: (202) 512-2250
Hours: 7:30 a.m. – 4:30 p.m. EST
URL: http://www.access.gpo.gov/su_docs/index.html
Address: Superintendent of Documents
P.O. Box 371954
Pittsburgh, PA 15250-7954

Library of Congress: The Library of Congress, a federal government agency, houses documents published in the United States. This agency uses the LCCN system addressed in the acronym list above. Access to the Library of Congress requires a person to be over the age of eighteen and maintain a user card. User cards may be obtained upon presentation of a valid driver license and completion of a registration process. For more information contact:

Tel: (202) 707-5000
Fax: (202) 707-5844
Hours: M, W, Th: 8:30 a.m. – 9:30 p.m.
Tu, F, S: 8:30 a.m. – 5:00 p.m.
URL: http://lcweb.loc.gov/
Address: Library of Congress
101 Independence Ave., SE
Washington, DC 20540

National Center for Environmental Publications and Information (NCEPI): NCEPI maintains more than 5,500 EPA documents. The public may request documents with some limitation. The requester can order up to five separate documents during a two-week period with one copy of each document free of charge. Document titles and publication numbers are needed to order documents. If a requested document is not available, NCEPI will refer the requester to another organization that typically carries EPA documents. For more information or to request a document contact:

Tel: (800) 490-9198
Fax: (513) 489-8695
URL: http://www.epa.gov/ncepihom/orderpub.html
E-mail: ncepi.mail@epamail.epa.gov
Address: National Center for Environmental Publications and Information (NCEPI)
P.O. Box 42419
Cincinnati, OH 45242-2419

National Environmental Information Service (NEIS): NEIS serves as a single-source clearinghouse of all government environmental documents and software, including all U.S. EPA and Occupational Safety and Health Administration documents and software. The NEIS order number or the EPA or OSHA document numbers are needed to order documents, and a shipping fee is charged in addition to the cost of the document. For more information or to request a document contact:

Tel: (800) 729-1964
Fax: (800) 776-6904
URL: http://www.neis.com/neis.html
E-mail: mcouhig@ix.netcom.com
Address: NEIS
3154B College Drive, Suite 522
Baton Rouge, LA 70808

National Environmental Publications Information (NEPI): The NEPI database includes many EPA documents electronically. These documents can be located by EPA publication number or by document title. To search for a document by publication number, go to http://www.epa.gov/clhtml/pubtitle.html. To search by title, go to http://www.epa.gov/clhtml/pubalpha.html.

National Technical Information Service (NTIS): NTIS, under the Department of Commerce, houses scientific, engineering, technical and business-related information. In addition to the cost of the document, NTIS requires a $4.00 handling fee for distributions within the United States, Canada and Mexico and an $8.00 handling fee for all other locations. For more information or to request a document contact:

Tel:	(800) 553-6847 or (703) 605-6000
Fax:	(703) 605-6900
Hours:	8:00 a.m. - 8:00 p.m. (ET), M-F
URL:	http://www.ntis.gov
E-mail:	orders@ntis.fedworld.gov
Address:	NTIS 5285 Port Royal Road Springfield, VA 22161

EPA Libraries: Appendix A provides a list of EPA libraries across the United States and associated telephone numbers. Use of EPA libraries is limited to EPA personnel. The public can ask their local public libraries to request EPA documents. To obtain an EPA document use the EPA docket number, described as OCLC in the acronym chart above.

AVAILABILITY OF THIS DOCUMENT

EPA's *Chemical Industry Compliance Improvement Tool* is available in Adobe Acrobat® PDF format. The document can be retrieved via the Internet from EPA's Chemical, Commercial Services and Municipal Division (CCSMD) home page at the following address:

http://www.epa.gov/oeca/ccsmd/

The document (Pub. No. EPA-305-B-98-010) can be ordered via mail, telephone, fax, or on-line from NCEPI (see page 2 of this document for contact information for NCEPI). EPA's Chemical Industry Branch is currently planning to periodically update this *Compliance Improvement Tool* depending on need and availability of resources. A comment form is included at the back of this document to solicit comments and suggestions for continuous improvement.

MORE TECHNICAL ASSISTANCE FOR THE CHEMICAL INDUSTRY

In the fall of 1998, EPA in collaboration with the National Center for Clean Industrial and Treatment Technologies/Michigan Technological University, Pacific Northwest National Laboratory and the University of Wisconsin will establish a chemical industry compliance assistance center (ChemAlliance). ChemAlliance will help chemical manufacturers, regulators, and assistance providers obtain regulatory, technical and compliance information. Some of the features to be provided by the center will include the following:

- Easy access to environmental regulations, fact sheets, self-assessment tools, and plain-language guides,
- A toll-free fax-back capability,
- A forum to foster communication among users,
- Training workshops,
- Links to state and federal agencies and organizations, and
- On-line expert help desk to guide users.

For more information, contact Emily Chow, U.S. EPA Office of Compliance, by phone at (202) 564-7071 or by e-mail at chow.emily@epamail.epa.gov.

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CHEMICAL INDUSTRY "MUST-HAVE" SOURCES

CHEMICAL INDUSTRY "MUST-HAVES"

MUST-HAVES

Documents

Chemical Industry Baseline Compliance Report.
Author: U.S. EPA, Office of Enforcement and Compliance Assurance (OECA)
Date: 1996
Report No.: EPA/305/R-96/002
Abstract: This document was developed as a baseline against which to measure compliance trends among the various subsectors of the chemical manufacturing industry. Through an analysis of data related to economics, demographics, the Toxics Release Inventory (TRI), compliance monitoring actions, and violations and enforcement actions, the baseline report provides an overview of the U.S. chemical industry sector as a whole (Standard Industrial Classification (SIC) codes in the 2800 series) and its subsector components (SICs 281 to 289). It is intended for use by regulators, states, industry, and the public as a general profile of the chemical industry and its environmental performance from 1990 to 1994. The baseline report provides information that may serve as a catalyst for the development of innovative compliance initiatives and similar profiles for this and other sectors on a state or regional basis.
Source: NCEPI

EPA Office of Compliance Sector Notebook Project: Profile of the Inorganic Chemicals Industry.
Author: U.S. EPA, Washington, DC, Office of Compliance
Date: September 1995
Pages: 135
Report No.: EPA/310/R-95/004
Abstract: The U.S. EPA's Office of Compliance has developed a series of profiles or notebooks containing information on selected major industrial groups; this one focuses on the inorganic chemicals industry. These notebooks, which focus on key indicators that holistically present air, water, and land pollutant release data, have been thoroughly reviewed by experts from both inside and outside the U.S. EPA. Each sector-specific notebook gives comprehensive, well-researched details including a comprehensive environmental profile, industrial process information, pollution prevention techniques, pollutant release data, regulatory requirements, compliance/enforcement history, government and industry partnerships, innovative programs, contact names, bibliographic references, and a description of research methodology. Each notebook is available in one or more electronic file formats for downloading. Because the electronic files of the notebooks published in 1995 do not contain all the tables, graphs, charts and illustrations that appear in the printed version, you may want to order printed bound copies from the Government Printing Office (GPO).
Source: GPO or download from http://es.epa.gov/comply/sector/index.html

EPA Office of Compliance Sector Notebook Project: Profile of the Organic Chemicals Industry.
Author: U.S. EPA, Washington, DC, Office of Compliance
Date: September 1995
Pages: 146
Report No.: EPA/310/R-95/012
Abstract: The U.S. EPA's Office of Compliance has developed a series of profiles or notebooks containing information on selected major industrial groups; this one focuses on the organic chemicals industry. These notebooks, which focus on key indicators that holistically present air, water, and land pollutant release data, have been thoroughly reviewed by experts from both inside and outside the U.S. EPA. Each sector-specific notebook gives comprehensive, well-researched details including a comprehensive environmental profile, industrial process information, pollution prevention techniques, pollutant release data, regulatory requirements, compliance/enforcement history, government and industry partnerships, innovative programs, contact names, bibliographic references, and a description of research methodology. Each notebook is available in one or more electronic file formats for downloading. Because the electronic files of the notebooks

published in 1995 do not contain all the tables, graphs, charts and illustrations that appear in the printed version, you may want to order printed bound copies from the Government Printing Office (GPO).
Source: GPO or download from http://es.epa.gov/comply/sector/index.html

MUST HAVES

EPA Office of Compliance Sector Notebook Project: Profile of the Petroleum Refining Industry.
Author: U.S. EPA, Washington, DC, Office of Compliance
Date: September 1995
Pages: 142
Report No.: EPA/310/R-95/013
Abstract: The U.S. EPA's Office of Compliance has developed a series of profiles or notebooks containing information on selected major industrial groups; this one focuses on the petroleum refining industry. These notebooks, which focus on key indicators that holistically present air, water, and land pollutant release data, have been thoroughly reviewed by experts from both inside and outside the U.S. EPA. Each sector-specific notebook gives comprehensive, well-researched details including a comprehensive environmental profile, industrial process information, pollution prevention techniques, pollutant release data, regulatory requirements, compliance/enforcement history, government and industry partnerships, innovative programs, contact names, bibliographic references, and a description of research methodology. Each notebook is available in one or more electronic file formats for downloading. Because the electronic files of the notebooks published in 1995 do not contain all the tables, graphs, charts and illustrations that appear in the printed version, you may want to order printed bound copies from the Government Printing Office (GPO).
Source: GPO or download from http://es.epa.gov/comply/sector/index.html

NEW

EPA Office of Compliance Sector Notebook Project: Profile of the Pharmaceutical Industry.
Author: U.S. EPA, Washington, DC, Office of Compliance
Date: September 1997
Pages: 159
Report No.: EPA/310/R-97/005
Abstract: The U.S. EPA's Office of Compliance has developed a series of profiles or notebooks containing information on selected major industrial groups; this one focuses on the pharmaceutical industry. These notebooks, which focus on key indicators that holistically present air, water, and land pollutant release data, have been thoroughly reviewed by experts from both inside and outside the U.S. EPA. Each sector-specific notebook gives comprehensive, well-researched details including a comprehensive environmental profile, industrial process information, pollution prevention techniques, pollutant release data, regulatory requirements, compliance/enforcement history, government and industry partnerships, innovative programs, contact names, bibliographic references, and a description of research methodology. Each notebook is available in one or more electronic file formats for downloading.
Source: GPO or download from http://es.epa.gov/comply/sector/index.html

NEW

EPA Office of Compliance Sector Notebook Project: Profile of the Plastic Resin and Manmade Fiber Industries.
Author: U.S. EPA, Washington, DC, Office of Compliance
Date: September 1997
Pages: 192
Report No.: EPA/310/R-97/008
Abstract: The U.S. EPA's Office of Compliance has developed a series of profiles or notebooks containing information on selected major industrial groups; this one focuses on the plastic resin and manmade fiber industries. These notebooks, which focus on key indicators that holistically present air, water, and land pollutant release data, have been thoroughly reviewed by experts from both inside and outside the U.S. EPA. Each sector-specific notebook gives comprehensive, well-researched details including a comprehensive environmental profile, industrial process information, pollution prevention techniques, pollutant release data, regulatory requirements, compliance/enforcement history, government and industry partnerships, innovative programs, contact names, bibliographic references, and a description of research methodology. Each notebook is available in one or more electronic file formats for downloading.
Source: GPO or download from http://es.epa.gov/comply/sector/index.html

MUST-HAVES

EPA Office of Compliance Sector Notebook Project: Profile of the Rubber and Plastics Industry.
Author: U.S. EPA, Washington, DC, Office of Compliance
Date: September 1995
Pages: 133
Report No.: EPA/310/R-95/016
Abstract: The U.S. EPA's Office of Compliance has developed a series of profiles or notebooks containing information on selected major industrial groups; this one focuses on the rubber and plastics industry. These notebooks, which focus on key indicators that holistically present air, water, and land pollutant release data, have been thoroughly reviewed by experts from both inside and outside the U.S. EPA. Each sector-specific notebook gives comprehensive, well-researched details including a comprehensive environmental profile, industrial process information, pollution prevention techniques, pollutant release data, regulatory requirements, compliance/enforcement history, government and industry partnerships, innovative programs, contact names, bibliographic references, and a description of research methodology. Each notebook is available in one or more electronic file formats for downloading. Because the electronic files of the notebooks published in 1995 do not contain all the tables, graphs, charts and illustrations that appear in the printed version, you may want to order printed bound copies from the Government Printing Office (GPO).
Source: GPO or download from http://es.epa.gov/comply/sector/index.html

General Enforcement Policy Compendium. Volume 1.
Author: U.S. EPA, Office of Enforcement and Compliance Assurance (OECA)
Date: December 1994
Pages: 1185
NTIS No.: PB96-134341
OCLC No.: 32529523
NEIS No.: 1640
Abstract: This compendium contains 74 generic policies and guidelines that pertain to U.S. EPA's environmental enforcement program. These documents address environmental enforcement issues that affect more than one statutory program, as opposed to policies that are specific to just one medium, such as air, soil, or water.
Source: NTIS, NEIS, OCLC

NEW

HON Inspection Tool.
Author: U.S. EPA, Office of Enforcement and Compliance Assurance (OECA)
Date: September 1997
Pages: 262
Report No.: EPA/305/B-97/006
Abstract: The document is designed to assist Federal, state, and local regulatory personnel with enforcement of the process vent, transfer operation, storage vessel and wastewater provisions of the hazardous organic NESHAP (HON). Volume I contains descriptions of the background information on emission points and control technologies. These descriptions cover process vents, transfer operations, storage vessels, and wastewater provisions. Volume II contains checklists to assist the inspector during actual inspections.
Source: NCEPI

NEW

Inorganic Chemical Manufacturing Statutory and Regulatory Summaries.
Author: U.S. EPA, Office of Enforcement and Compliance Assurance (OECA)
Date: December 1997
Report No.: EPA/305/S-97/002
Abstract: This guide is a resource for the inorganic chemical manufacturing sector on Federal environmental regulations, identifying and clarifying regulatory information necessary to conduct a self-assessment. These documents describe portions of environmental statutes that may apply to the given manufacturing industry and detail regulatory requirements (such as applicability, exemptions, monitoring, record keeping, and reporting), summarized by statute.
Source: NCEPI, U.S. EPA web site (http://www.epa.gov)

MUST-HAVES

Inspection Manual: Equipment Leak Regulations for the Chemical Manufacturing Industry.
Author: U.S. EPA, Office of Enforcement and Compliance Assurance (OECA)
Date: February 1998
Pages: 300, three volumes
Report No.: EPA/305/B-96/005
Abstract: Volume I provides inspection procedures for determining compliance for equipment leak regulations promulgated under Parts 60, 61, and 63 of CAA and Parts 264 and 265 of RCRA, including sections on determining applicability, determining compliance through reports, recordkeeping and on-site inspections, as well as providing recommended inspection techniques and procedures. Volume II provides a side by side summary of equipment leak provisions, a summary of differences, a summary by component, a discussion of regulated equipment, and supporting test methods. Volume III provides the same information for regulations promulgated under Parts 60 and 63 for the petroleum industry.
Source: NCEPI

Paints, Varnishes, Lacquers, Enamels, and Allied Products Manufacturing (SIC 2851) Statutory and Regulatory Summaries.
Author: U.S. EPA, Office of Enforcement and Compliance Assurance (OECA)
Date: December 1997
Report No.: EPA/305/S-97/005
Abstract: This guide is a resource for the paints, varnishes, lacquers, enamels, and allied products manufacturing sector on Federal environmental regulations, identifying and clarifying regulatory information necessary to conduct a self-assessment. These documents describe portions of environmental statutes that may apply to the given manufacturing industry and detail regulatory requirements (such as applicability, exemptions, monitoring, record keeping, and reporting), summarized by statute.
Source: NCEPI, U.S. EPA web site (http://www.epa.gov)

Perfumes, Cosmetics, and Other Toilet Preparations Manufacturing (SIC 2844) Statutory and Regulatory Summaries.
Author: U.S. EPA, Office of Enforcement and Compliance Assurance (OECA)
Date: December 1997
Report No.: EPA/305/S-97/003
Plastics Materials, Synthetic Resins and Nonvulcanizable Elastomers Manufacturing (SIC 2821)
EPA/305/S-97/004
Abstract: This guide is a resource for the perfumes, cosmetics, and other toilet preparations manufacturing sector on Federal environmental regulations, identifying and clarifying regulatory information necessary to conduct a self-assessment. These documents describe portions of environmental statutes that may apply to the given manufacturing industry and detail regulatory requirements (such as applicability, exemptions, monitoring, record keeping, and reporting), summarized by statute.
Source: NCEPI, U.S. EPA web site (http://www.epa.gov)

Pharmaceutical Manufacturing Statutory and Regulatory Summaries.
Author: U.S. EPA, Office of Enforcement and Compliance Assurance (OECA)
Date: December 1997
Report No.: EPA/305/S-97/001
Abstract: This guide is a resource for the pharmaceutical manufacturing sector on Federal environmental regulations, identifying and clarifying regulatory information necessary to conduct a self-assessment. These documents describe portions of environmental statutes that may apply to the given manufacturing industry and detail regulatory requirements (such as applicability, exemptions, monitoring, record keeping, and reporting), summarized by statute.
Source: NCEPI, U.S. EPA web site (http://www.epa.gov)

Plastics Materials, Synthetic Resins and Nonvulcanizable Elastomers Manufacturing (SIC 2821) Statutory and Regulatory Summaries.

Author: U.S. EPA, Office of Enforcement and Compliance Assurance (OECA)
Date: December 1997
Report No.: EPA/305/S-97/004
Abstract: This guide is a resource for the plastics materials, synthetic resins and nonvulcanizable elastomers manufacturing sector on Federal environmental regulations, identifying and clarifying regulatory information necessary to conduct a self-assessment. These documents describe portions of environmental statutes that may apply to the given manufacturing industry and detail regulatory requirements (such as applicability, exemptions, monitoring, record keeping, and reporting), summarized by statute.
Source: NCEPI, U.S. EPA web site (http://www.epa.gov)

MUST-HAVES

Process-Based Self-Assessment Tool for the Organic Chemical Industry.

Author: U.S. EPA, Washington, DC, Office of Enforcement and Compliance Assurance
Date: December 1997
Pages: 400
Report No.: EPA/305/B-97/002
Abstract: This guide is a resource on Federal environmental regulations for small-to-medium-sized organic chemical manufacturing facilities. This manual 1) provides a general approach for performing a multimedia self-assessment to evaluate compliance with environmental regulations, and 2) provides industry-specific process and regulatory information necessary for conducting an assessment at an organic chemical manufacturing facility. The general approach section describes the steps for planning, conducting, and following up a multimedia self-assessment. Industry-specific information is given to supplement the generic self-assessment approach. This document describes processes found throughout the chemical manufacturing industry and identifies potential releases from each process and associated environmental legislation. Additional regulatory requirements (such as applicability, exemptions, monitoring, record keeping, and reporting) potentially affecting organic chemical manufacturers are summarized by statute in the appendices.
Source: NCEPI, U.S. EPA web site (http://www.epa.gov)

On-line Access

Chemical Industry Branch home page

URL: http://www.epa.gov/oeca/ccsmd
Abstract: The Chemical Industry Branch (CIB) home page contains compliance oriented publications, regulations, and links for chemical, commercial services, and municipal industries. The site is organized by industry, with a wide variety of compliance assistance materials and reference available for each.

***Code of Federal Regulations* search page**

URL: http://www.access.gpo.gov/nara/cfr/index.html
Abstract: The *Code of Federal Regulations* (CFR) is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the Federal government. The CFR on-line is a joint project to provide the public with enhanced access to government information. The CFR is divided into 50 titles that represent broad areas subject to Federal regulation. Each title is divided into chapters that usually bear the name of the issuing agency. Each chapter is further subdivided into parts covering specific regulatory areas. Large parts may be subdivided into subparts. All parts are organized in sections, and most citations to the CFR will be provided at the section level.

MUST-HAVES

Enviroene

URL: http://es.epa.gov

Abstract: Enviroene, an integral part of the U.S. EPA's web site, attempts to provide a single repository for pollution prevention, compliance assurance, and enforcement information and data bases. Included are pollution prevention case studies, technologies, points of contact, environmental statutes, executive orders, regulations, and compliance and enforcement policies and guidelines. A major component of Enviroene is the data base umbrella architecture for "solvent alternatives." Enviroene information may be used to implement pollution prevention and solvent substitution programs, ensure compliance with environmental laws and regulations, solve enforcement cases, and develop research projects. Enviroene is funded by the U.S. EPA and the Department of Defense Strategic Environmental Research and Development Program.

***Federal Register* search page**

URL: http://www.access.gpo.gov/su_docs/aces/aces140.html

Abstract: The *Federal Register* is the official daily publication for rules, proposed rules, and notices of Federal agencies and organizations, as well as executive orders and other presidential documents. This page allows keyword searches through Federal Registers from 1995 to the present.

Software

Environmental Statute Review Course.

Author: National Enforcement Training Institute (NETI), Office of Criminal Enforcement, Forensics and Training

Date: October 1997

Abstract: This CD-ROM reviews the environmental regulations (CAA, CERCLA, CWA, EPCRA, FIFRA, RCRA, and TSCA) and provides exercises and quizzes to test the user's knowledge.

Source: NETI web site (http://earth2.epa.gov/neti) or call NETI [(800) EPA-NETI]

CLEAN AIR ACT SOURCES

CAA
General

Brief History of the Clean Air Act

1970 - Congress passed the Clean Air Act (CAA) to control and abate air pollution through regulation of air emissions from area, stationary and mobile sources. The Clean Air Act charged the Environmental Protection Agency (U.S. EPA) with conducting research and development programs, setting national standards and regulations providing technical and financial assistance to the states and where necessary, supplementing state implementation programs. The act required U.S. EPA to:

- Set National Ambient Air Quality Standards (NAAQS) for emissions of substances posing a general threat to air quality for criteria pollutants.
- Set primary standards relating to human health and secondary standards for welfare effects.
- Set emissions standards for industries called National Emissions Standards for Hazardous Air Pollutants (NESHAPs).
- Set minimum national emissions standards for new sources of pollution in specific categories (New Source Performance Standards).
- Directed states to adopt state implementation plans (SIPs) with specific emission limitations applicable to emitting sources in the state. The SIPs were designed to attain achievement of the primary NAAQS.

1977 - Clean Air Act Amendments set new goals for achieving the attainment of NAAQS by 1975.

- Established new NAAQS compliance dates and enforcement mechanisms.
- The Prevention of Significant Deterioration (PSD) program was added to prevent significant deterioration in areas where air quality was already cleaner than national standards.

1990 - Clean Air Act Amendments

- Targeted reductions in emissions of sulfur dioxide and nitrogen oxides.
- Established non-attainment areas for cities not meeting federal ozone standards.
- Set specific targets for reducing tailpipe emissions of hydrocarbons and nitrogen oxides and for the use of cleaner gasolines.
- Increased the number of regulated toxic air pollutants from 7 to 189.

1996 – Final regulations under Section 112(r) were passed on chemical accidental release prevention.

- Required facilities to develop and implement a Risk Management Program (RMP) to identify hazards and manage risks.
- Designed to prevent serious chemical accidents that could affect public health and the environment and to improve the response to any accidents that do occur.

Regulations pertaining to CAA can be found in 40 CFR Parts 50 – 99, available on-line at http://www.epa.gov/docs/epacfr40subch-C/. Check the *Federal Register* for new rules, proposed rules and notices at http://www.access.gpo.gov/su_docs/aces/aces140.html.

EnviroSense
Common Sense Solutions to Environmental Problems

**** Reminder **** - For the most up-to-date information, check U.S. EPA's Enviroene web site, http://es.epa.gov, or check with a local technical assistance provider (see Appendix B).

To obtain the materials listed, see page 2.

CAA TOC

General.....11
Emissions 18
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GENERAL

Hotlines

CAA General

Acid Rain Hotline
Tel: (202) 233-9620
Hours: 24 hours/day, 7 days/wk
Instructions: Dial the main hotline number and listen to the categories. Leave technical questions in the mailbox and request documents from a menu, if desired. All documents are free and will be mailed promptly.
Abstract: The Acid Rain Hotline records questions and document requests covering all areas of the Acid Rain Program. The Hotline assists callers who have specific technical or policy questions by forwarding those inquiries to experienced U.S. EPA Acid Rain Division personnel, who review them and respond to the caller, typically within 24 hours. The Acid Rain Hotline is designed to be a one-stop shop allowing interested parties to both raise questions and request a variety of documents related to the program.

Air Risk Information Support Center
Tel: (919) 541-5384
Hours: 8:00 a.m.-5:00 p.m. (EST) M-F
Abstract: The Air RISC provides technical assistance and information in areas of health, risk, and exposure assessment for toxic and criteria air pollutants. Services include: the hotline for direct access to U.S. EPA experts; detailed technical assistance for more in-depth evaluations or information; and general technical guidance in the form of documents, reports and training materials related to health, risk and exposure assessment. Air RISC can also be accessed through the OAQPS Technology Transfer Network (TTN).

The Air RISC was developed to assist State and local air pollution control agencies and U.S. EPA Regional offices with technical matters pertaining to health, exposure, and risk assessment of air pollutants. Services to others may be limited or provided on a cost reimbursable basis.

Control Technology Center (CTC)
Tel: (919) 541-5432
Hours: 7:30 a.m. - 5:00 p.m. (EST) M-F
Abstract: The CTC was established in 1987 to provide technical assistance to state and local agencies in attaining the National Ambient Air Quality Standard (NAAQS) for Ozone and supporting air toxic programs. Currently support and assistance is provided on issues involving pollution prevention or control technologies for all air pollutants. In addition, the Clean Air Act Amendments of 1990 expanded the CTC user population to include "others" (i.e., anyone not working for a state or local government agency). CTC services include: a telephone HOTLINE to provide rapid access to U.S. EPA expertise and information; comprehensive, short term engineering assistance to resolve source specific issues; CTC-developed technical guidance documents, case studies, and computer software tools; the "CTC NEWS," a quarterly newsletter; and an electronic bulletin board system (BBS), called the CTC BBS, which provides around-the-clock access to CTC services and products.

On-line Access

Air Risk Information Support Center
URL: http://www.epa.gov/oar/oaq_ttn.html
Telnet: ttnbb.rtpnc.epa.gov
Abstract: See the Hotlines section of this chapter.

AIRS Home Page
URL: http://www.epa.gov/airs/
Abstract: U.S. EPA's Aerometric Information Retrieval System (AIRS) is a computer-based repository of information about airborne pollution in the United States and various World Health Organization (WHO) member countries.

AIRSWeb
URL: http://www.epa.gov/airsweb/
Abstract: AIRSWeb provides easy access to key measures of air pollution that U.S. EPA uses to assess the Nation's air quality: measurements of ambient air quality for the past five years from 4000 air monitoring sites across the nation; and air pollutant emissions and regulatory compliance status for 9000 point sources regulated by U.S. EPA. AIRSWeb reports are generated on demand from a database refreshed monthly with the latest information from AIRS. There are several report formats, and each one can show data for a single state or the entire USA.

Applicability Determination Index (ADI)
URL: http://134.67.104.12/cfdocs/adiwww/adiwww.html-ssi
Abstract: This database contains U.S. EPA memoranda on applicability and compliance issues associated with the New Source Performance Standards (NSPS), National Emissions Standards for Hazardous Air Pollutants (with categories for both NESHAP, Part 61, and MACT, Part 63), CFCs, asbestos (Part 61, Subpart M) and wood stoves (Part 60, Subpart AAA). OECA's Manufacturing, Energy and Transportation Division maintains the database and adds recently issued determinations quarterly. Both Macintosh and IBM-compatible PC users can access ADI. For information on how to use the ADI, including access to the system and searching, viewing, and downloading information, select the 'User's Guide' link. Users can search for determinations by a combination of subparts, regulatory citations, issue dates, U.S. EPA Region/office and word search strings. Users can then view information such as the header (which gives basic data about the determination), the abstract, or the full text of the determination. Users can download determinations in ASCII text files that can be read or printed using a word processor or text editor.

CAA 112(r) Frequently Asked Questions (as of June 1998).
URL: http://www.epa.gov/swercepp/pubs/caa-faqs.html
Abstract: A collection of questions and answers regarding the Risk Management Program Rule under CAA Section 122(r) taken from the Q&A database.

CAA 112(r) Q&A Database
URL: http://www.epa.gov/swercepp/acc-pre.html#Q and A
Abstract: A database of questions and answers related to the Clean Air Act Section 112(r) and EPCRA. An update of the database is available at http://www.epa.gov/swercepp/pubs/nfo.exe once you've already loaded the database onto your hard drive. The database is being converted to an Internet-based application.

CAA
General

Control Technology Center (CTC)
URL: http://www.epa.gov/oar/oaq_ttn.html
Telnet: ttnbbs.rtpnc.epa.gov
Abstract: See the Hotlines section of this chapter.

U.S. EPA's Chemical Emergency Preparedness and Prevention Office (CEPPO)
URL: http://www.epa.gov/swercepp/
Abstract: This site is the home page for U.S. EPA's CEPPO, whose goal is to provide leadership, advocacy, and assistance to prevent and prepare for chemical emergencies, respond to environmental crises, and inform the public about chemical hazards in their communities. To protect human health and the environment CEPPO develops, implements, and coordinates regulatory and non-regulatory programs.

U.S. EPA's Office of Air Quality Planning and Standards (OAQPS)
URL: http://www.epa.gov/oar/oaqps/
Abstract: This site is the home page for U.S. EPA's OAQPS, whose goal is to preserve and improve the quality of the air everyone breathes. Towards this end, OAQPS is involved in various projects dealing with the assessment and regulation of air pollution. Topics and organizations that are part of OAQPS's work include air pollution monitoring, air pollution emissions, air pollution data, inter-agency programs, conferences, workshops, and training.

U.S. EPA's Office of Air and Radiation (OAR)
URL: http://www.epa.gov/oar/
Abstract: This site is the home page for U.S. EPA's OAR which is involved with a wide variety of issues that affect the quality of our air. They have informational material on indoor air pollution problems, including radon; programs

that are primarily concerned with motor vehicles and with stationary sources such as factories and power plants; and programs related to topics such as acid rain, global warming (pollution prevention), and the hole in the ozone layer.

CAA General

Real Time Air Pollution Data
URL: http://www.epa.gov/realtime/
Abstract: Links to sites containing up-to-the-minute or frequently updated information from air monitors and other sources.

Simplified List of Nonattainment Areas
URL: http://www.epa.gov/airs/nonattn.html
Abstract: The Clean Air Act and Amendments of 1990 define a "nonattainment area" as a locality where air pollution levels persistently exceed National Ambient Air Quality Standards.

Technology Transfer Network (TTN)
URL: http://www.epa.gov/ttn
FTP: ttnftp.rtpnc.epa.gov
Telnet: ttnbbs.rtpnc.epa.gov
Modem: (919) 541-5742 (14.4 kps)
Off-line: 8:00 a.m. - 12:00 noon (EST) Monday
Help: (919) 541-5384
Abstract: The Technology Transfer Network (TTN), operated by U.S. EPA's Office of Air Quality Planning and Standards, is a collection of related Web sites containing information about many areas of air pollution science, technology, regulation, measurement, and prevention. In addition, the TTN serves as a public forum for the exchange of technical information and ideas among participants and U.S. EPA staff. The TTN contains such things as tools to estimate air pollutant emissions, downloadable computer code for regulatory air models, a summary of the Clean Air Act, a course offered by the Air Pollution Training Institute, and an offer for request technical support in implementing an air pollution control program.

Documents

Clean Air Act of 1990: An Introductory Guide to Smart Implementation.
Author: Clean Air Act Advisory Committee, Washington, DC
Date: 1990
Pages: 5
Report No.: EPA/450/K-92/003
OCLC No.: 28830023
Source: OCLC

EPA's Risk Management Program: How Does It Affect Chemical Distributors?
Author: U.S. EPA, Chemical Emergency Preparedness and Prevention Office, Washington, DC
Date: April 1998
Pages: 2
Report No.: EPA/550/F-98/011
Abstract: This brochure briefly explains requirements of CAA Section 112(r) for chemical distributors and identifies who is likely to be subject to the rule.
Source: http://www.epa.gov/ceppo/pubs/dist-bul.pdf

EPA's Risk Management Program: How Does It Affect Chemical Warehouses?
Author: U.S. EPA, Chemical Emergency Preparedness and Prevention Office, Washington, DC
Date: April 1998
Pages: 2
Report No.: EPA/550/F-98/009
Abstract: This brochure briefly explains requirements of CAA Section 112(r) for chemical warehouses and identifies who is likely to be subject to the rule.
Source: http://www.epa.gov/ceppo/pubs/ware-bul.pdf

Funding Sources for Implementing the Risk Management Program - Factsheet.
Author: U.S. EPA, Office of Solid Waste and Emergency Response, Washington, DC
Date: May 1998
Pages: 2
Report No.: EPA/550/F-98/016
Abstract: This fact sheet explains state and federal funding options for implementing Section 112(r) of CAA.

Source: NCEPI, download from http://www.epa.gov/swercepp/pubs/funding.pdf

List of Substances for Accidental Release Prevention : CAA 112(r) - Factsheet.
Author: U.S. EPA, Office of Solid Waste and Emergency Response, Washington, DC
Date: May 1996
Pages: 2
Report No.: EPA/550/F-96/003
Abstract: This fact sheet explains Section 112(r) of CAA and changes to the list of regulated substances.
Source: NCEPI, download from http://www.epa.gov/swercepp/factsheets/listrule.pdf

Pesticide Regulation (PR) Notice 92-3. Notice to Manufacturers, Formulators, Distributors, and Registrants of Pesticide Products.
Author: U.S. EPA, Washington, DC, Office of Pesticide Programs
Date: 19 March 1992
Pages: 12
Notes: Also available in set of 6 reports PC E99/MF. E99, PB93-219459.
NTIS No.: PB93-219483
Report No.: EPA/731/N-92/003
Abstract: The notice is to alert pesticide registrants to new provisions of the Clean Air Act (CAA) which will affect registrations, and inform them of how they must or may comply with new requirements within the framework of FIFRA. The Appendix to the Notice gives a general timeline of activities under the CAA and related activities under FIFRA. The requirements are directed to registrants of products containing or manufactured with CFCs, HCFCs, carbon tetrachloride, and methyl chloroform.
Source: NTIS

Pesticide Regulation (PR) Notice 95-4. Notice to Manufacturers, Formulators, Producers and Registrants of Pesticide Products. Methyl Bromide Alternatives.
Author: U.S. EPA, Washington, DC. Office of Prevention, Pesticides and Toxic Substances
Date: 1995
Pages: 8
NTIS No.: PB95-270716
Report No.: EPA/730/N-95/002
Abstract: This notice is to inform registrants, procedures, and users of methyl bromide about the U.S. EPA's policies and obligations under FIFRA, CAA, and the Montreal Protocol to regulate methyl bromide. It is also intended to inform registrants of U.S. EPA's commitment to giving priority review to methyl bromide alternatives, consistent with the Agency's reduced risk initiative.
Source: NTIS

CAA
General

Plain English Guide to the Clean Air Act.
Author: U.S. EPA, Washington, DC, Office of Air and Radiation.
Date: April 1993
Pages: 34
Report No.: EPA/400/K-93/001
ISBN: ISBN-0-16-036283-0
NTIS No.: PB93-217438INZ
Abstract: A brief introduction to the 1990 version of the Clean Air Act, to help you understand what is in the law and how it may affect you.
Source: NTIS, or download from http://www.epa.gov/oar/oaqps/peg_caa/pegcaain.html

Process-Based Self-Assessment Tool for the Organic Chemical Industry.
Author: U.S. EPA, Washington, DC, Office of Enforcement and Compliance Assurance, Office of Compliance
Date: December 1997
Pages: 400
Report No.: EPA/305/B-97/002
Abstract: This guide is a resource on Federal environmental regulations for small-to-medium-sized organic chemical manufacturing facilities. This manual 1) provides a general approach for performing a multimedia self-assessment to evaluate compliance with environmental regulations, and 2) provides industry-specific process and regulatory information necessary for conducting an assessment at an organic chemical manufacturing facility. The general approach section describes the steps for planning, conducting, and following up a multimedia self-assessment. Industry-specific information is given to supplement the generic self-assessment approach. This document describes processes found throughout the chemical manufacturing industry and identifies potential releases from each process and associated environmental legislation. Additional regulatory requirements (such as applicability, exemptions, monitoring, record

keeping, and reporting) potentially affecting organic chemical manufacturers are summarized by statute in the appendices.
Source: NCEPI

CAA General

Risk Management Programs under CAA Section 112(r) - Guidance for Implementing Agencies.
Author: U.S. EPA, Chemical Emergency Preparedness and Prevention Office
Date: February 1998
Pages: 58
Abstract: This publication provides guidance on developing accidental release prevention programs under section 112(r) of the Clean Air Act (CAA). Although the rules published under section 112(r) are part of the CAA, they are related to and build on activities conducted under the Emergency Planning and Community Right-to-Know Act (EPCRA) and the Occupational Safety and Health Administration (OSHA) standards.
Source: EPCRA Hotline [(800) 424-9346] or http://www.epa.gov/swercepp/acc-pre.html#Technical Guidance

Questions and Answers about the Early Reductions Program.
Author: U.S. EPA, Research Triangle Park, NC, Office of Air Quality Planning and Standards
Date: January 1992
Pages: 57
NTIS No.: PB92-180124
Report No.: EPA/450/3-92/005
Abstract: Regulations have been proposed governing compliance extensions for early reductions of Hazardous Air Pollutants (HAPs). The regulations allow a six year MACT standard compliance extension for sources that achieve HAP reductions of 90% (95% for particulates) from a base year of 1987 (or more recent base year). The document is a compilation of questions and answers about the early reductions program, and is intended to assist companies interested in participating in the program and to assist Regulatory agencies responsible for implementing the program.
Source: NTIS

Title III List of Lists: Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-to-Know Act (EPCRA) and Section 112(r) of the Clean Air Act, as amended: Title III of the Superfund Amendments and Reauthorization Act of 1986, and Title III of the Clean Air Act Amendments of 1990.
Author: U.S. EPA, Washington, DC, Office of Prevention, Pesticides and Toxic Substances and Office of Solid Waste and Emergency Response
Date: December 1996
Report No.: EPA/550/B-96/015
Abstract: This consolidated list has been prepared to help firms handling chemicals determine whether they need to submit reports under sections 302, 304, or 313 of SARA Title III (EPCRA) and, for a specific chemical, what reports may need to be submitted. It also helps firms determine whether they will be subject to accident prevention regulations under CAA section 112(r). Separate lists are also provided of RCRA waste streams and unlisted hazardous wastes, and of radionuclides reportable under CERCLA. These lists should be used as a reference tool, not as a definitive source of compliance information.
Source: NCEPI, OCLC

Videos

Implementing The Clean Air Act: EPA Speaks: Update {Video}.
Author: American Bar Association Division for Professional Education
Date: 1992
Report No.: EPA/400/V-92/004
Source: ABA [(312) 988-6203]

Instructional Package on Regulatory Air Quality Modeling. Part 1: Videos on the 'Guideline on Air Quality Models (Revised)' and the Model Clearinghouse (Video).

Author: U.S. EPA, Research Triangle Park, NC, Technical Support Division
Date: June 1992
Format: 1 VHS video, 60 minutes
Notes : Instructions sheets are included in package. Part 2 (Diskette Version) is available as PB94-500626.
NTIS No.: PB94-780012
Report No.: EPA/454/V-92/002

Abstract: The major regulatory air modeling guidance document, the 'Guideline on Air Quality Models (Revised),' and the Agency's focal point for reviewing the use of dispersion modeling techniques, the Model Clearinghouse, are described. The intended audience is professionals who have some technical experience using personal computers and whose responsibilities now include running U.S. EPA's air quality models (1) to assess the impact of emissions from new or modified sources or air toxics releases, or (2) to replicate the model results submitted in conjunction with such regulatory programs as NSR, PSD, NAAQS attainment demonstrations, Superfund, and others.
Source: NTIS

CAA
General

Training

RCRA/UST, Superfund, and EPCRA Hotline Training Module: Introduction to: Accidental Release Prevention Program (Clean Air Act Section 112(r); 40 CFR Part 68).

NEW

Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: June 1997
Pages: 19
Report No.: EPA/550/B-97/005

Abstract: This module discusses CAA ? 112(r) and its implementing regulations at 40 CFR 68 in detail. The document explains the purpose of the regulation and how it relates to the goals and requirements of EPCRA.
Source: NCEPI

EMISSIONS

Documents

CAA Emissions

Compilation of Air Pollutant Emission Factors. Volume 1. Stationary Point and Area Sources. Fifth Edition.
Author: U.S. EPA, Research Triangle Park, NC, Office of Air Quality Planning and Standards
Date: January 1995
Pages: 2050
NTIS No.: PB95-196028INE
Abstract: This document contains emission factors and process information for more than 200 air pollution source categories. These emission factors have been compiled from source test data, material balance studies, and engineering estimates, and they can be used judiciously in making emission estimations for various purposes. When specific source test data are available, such should be preferred over the generalized factors presented in this document. Also included are particle size distribution data and procedures for sampling and analyzing surface/bulk dust loading.
Source: NTIS

Control of Volatile Organic Compound Emissions from Batch Processes: Alternative Control Techniques Information Document.
Author: U.S. EPA, Research Triangle Park, NC, Office of Air Quality Planning and Standards
Date: February 1994
Pages: 379
Control No.: 420325543
NTIS No.: PB94-177128
Report No.: EPA/450/R-94/020
Abstract: The purpose of this document is to provide information on alternative control techniques for volatile organic compound (VOC) emissions from batch operations. Although the control techniques information applies to batch processing in all industries, the document focuses primarily on batch processes in the following six industries: plastic materials and resins (described by Standard Industrial Classification (SIC) Code 2821), pharmaceuticals (SIC 2833 and 2834), gum and wood chemicals (SIC 2861), cyclic crudes and intermediates (SIC 2865), industrial organic chemicals (2869), and agricultural chemicals (SIC 2879). The document contains information on emissions, controls, control options, and costs that States can use in developing rules based on reasonably available control technology.
Source: NTIS

Control of Volatile Organic Compound Emissions from Reactor Processes and Distillation Operations Processes in the Synthetic Organic Chemical Manufacturing Industry.
Author: U.S. EPA, Research Triangle Park, NC, Office of Air Quality Planning and Standards
Date: November 1991
Pages: 198
Notes: Portions of this document are not fully legible.
NTIS No.: PB92-180009
Report No.: EPA/450/4-91/031
Abstract: Control Techniques Guidelines are issued for volatile organic compound (VOC) emissions from reactor and distillation operations processes within the synthetic organic chemical manufacturing industry. The document informs Regional, State, and local air pollution control agencies of reasonable available control technology (RACT) for development of regulations necessary to attain the national ambient air quality standards for VOCs. The document is a draft and may be revised in response to comments from the public and industry.
Source: NTIS

Control of Volatile Organic Compound Emissions from Volatile Organic Liquid Storage in Floating and Fixed Roof Tanks. Guideline Series.
Author: U.S. EPA, Research Triangle Park, NC, Office of Air Quality Planning and Standards
Pages: 207
Date: October 1993
NTIS No.: PB94-128519INZ
Report No.: EPA/453/D-93/057
Source: NTIS

Control Techniques for Volatile Organic Compound Emissions from Stationary Sources, December 1992. Third edition.

Author: U.S. EPA, Research Triangle Park, NC, Office of Air Quality Planning and Standards
Date: December 1992
Pages: 466
Notes: See also PB83-111708 and PB-284 804.
NTIS No.: PB93-150258
Report No.: EPA/453/R-92/018
NEIS No.: 176
Abstract: The document is a summary document containing general information on sources of volatile organic compound (VOC) emissions, applicable control techniques, and the impacts resulting from control applications. It references other documents that contain much more detailed information on individual sources and control techniques. This is the third edition of a report originally published by the Department of Health, Education, and Welfare (HEW) titled, 'Control Techniques for Hydrocarbon and Organic Solvent Emissions from Stationary Sources (AP-68).' The first edition was published in March 1970 by the National Air Pollution Control Administration
Source: NTIS, NEIS

Control Techniques for Fugitive VOC Emissions from Chemical Process Facilities.

Author: U.S. EPA, Cincinnati, OH, Center for Environmental Research Information, Office of Research and Development
Date: March 1994
Pages: 163
OCLC No.: 30539536
Report No.: EPA/625/R-93/005
NEIS No.: 905
Abstract: This handbook contains a detailed review of established new source performance standards (NSPSs) and national emissions standards for hazardous air pollutants, as well as information on the RCRA Standards for hazardous waste treatment, storage, and disposal facilities.
Source: OCLC, NCEPI, NEIS

Control Technologies for Hazardous Air Pollutants.

Author: U.S. EPA, Cincinnati, OH, Center for Environmental Research Information
Date: June 1991
Pages: 261
NTIS No.: PB92-141373
Report No.: EPA/625/6-91/014
NEIS No.: 177
Abstract: The objective of the handbook is to present a methodology for determining the performance and cost of air pollution control techniques designed to reduce or eliminate the emissions of potentially hazardous air pollutants (HAPs) from industrial/commercial sources. (Note: The term 'hazardous' in the document is very broad. It is not limited to the specific compounds listed under current regulations). The handbook is to be used by U.S. EPA regional, State, and local air pollution control agency technical personnel for two basic purposes: (1) to respond to inquiries from interested parties (e.g., prospective permit applicants) regarding the HAP control requirements that would be needed at a specified process or facility, and (2) to evaluate/review permit applications for sources with the potential to emit HAPs.
Source: NTIS, NEIS

Locating and Estimating Air Emissions From Sources of… (multiple reports)

Author: U.S. EPA, Research Triangle Park, NC, Office of Air Quality Planning and Standards
Date: Various
Pages: Various
Report No.: See below

CONTAMINANT	REPORT NO.	DATE
1,3-butadiene	EPA/450/2-89/021	Dec 89
Acrylonitrile	EPA/450/4-84/007A	Mar 84
Benzene	EPA/450/4-84/007Q	Mar 88
Cadmium & cadmium compounds	EPA/454/R-93/040	Sep 93
Carbon tetrachloride	EPA/450/4-84/007B	Mar 84
Chlorobenzenes	EPA/454/R-93/044	Mar 94
Chloroform	EPA/450/4-84/007C	Mar 84
Chromium	EPA/450/4-84/007G	Jul 84
Chromium-supplement	EPA/450/2-89/002	Aug 89
Cyanide compounds	EPA/454/R-93/041	Sep 93
Epichlorohydrin	EPA/450/4-85/007J	Sep 85
Ethylene dichloride	EPA/450/4-84/007D	Mar 84
Ethylene oxide	EPA/450/4-84/007L	Sep 86
Formaldehyde	EPA/450/4-91/012	Mar 91
Manganese	EPA/450/4-85/007H	Sep 95
Medical waste incinerators	EPA/454/R-93/053	Oct 93
Mercury & mercury cmpds	EPA/454/R-93/023	Sep 93

CAA Emissions

Methyl chloroform	EPA/454/R-93/045	Feb 94
Methyl ethyl ketone	EPA/454/R-93/046	Mar 94
Methylene chloride	EPA/454/R-93-006	Feb 93
Municipal waste combustors	EPA/450/2-89/006	Apr 89
Nickel	EPA/450/4-84/007F	Mar 84
Perchloroethylene/ trichloroethylene	EPA/450/2-89/013	Aug 89
Phosgene	EPA/450/4-84/007I	Sep 85
Polychlorinated biphenyls	EPA/450/4-84/007N	May 87
Polycyclic organic matter	EPA/450/4-84/007P	Sep 87
Sewage sludge incinerators	EPA/450/2-90/009	May 90
Styrene	EPA/454/R-93-011	Apr 93
Toluene	EPA/454-R-93/047	Mar 94
Vinylidene chloride	EPA/450/4-84/007K	Sep 85
Xylene	EPA/454/R-93/048	Mar 94

Abstract: To assist groups interested in inventorying air emissions of various potentially toxic substances. U.S. EPA is preparing a series of documents such as these to compile available information on sources and emissions of these substances. These documents deal specifically with specific contaminants. Its intended audience includes Federal, State and local air pollution personnel and others interested in locating potential emitters of these contaminants and in making gross estimates of air emissions therefrom. These documents present information on 1) the types of sources that may emit the particular contaminant; 2) process variations and release points that may be expected within these sources; and 3) available emissions information indicating the potential for contaminant release into the air from each operation.
Source: NTIS

PM-10 Emission Inventory Requirements.
Author: U.S. EPA, Research Triangle Park, NC, Office of Air Quality Planning and Standards
Date: September 1994
Pages: 46
Notes: See also PB94-104304.
NTIS No.: PB95-109518
Report No.: EPA/454/R-94/033
Abstract: The document describes the emission inventory requirements that are contained in the CAA for those areas that are required to submit a State Implementation Plan (SIP) for demonstrating attainment of the National Ambient Air Quality Standard (NAAQS) for PM-10. The guidance in this document pertains to PM-10 moderate nonattainment areas. The purposes of the document are to (1) identify the types of inventories required; (2) briefly review the regulatory requirements pertaining to submission of these inventories; (3) describe the objectives, components, and ultimate uses of the inventories; and (4) define documentation and reporting requirements for the inventories.
Source: NTIS

Procedures for Establishing Emissions for Early Reduction Compliance Extensions. Volume 1. Synthetic Organic Chemical Manufacturing, Ethylene Oxide Sterilization, and Chromium Electroplating.
Author: U.S. EPA, Research Triangle Park, NC, Office of Air Quality Planning and Standards
Date: February 1992
Pages: 96
Notes: See also PB91-225706.
NTIS No.: PB92-176221
Report No.: EPA/450/3-91/012A
Abstract: Regulations have been proposed governing compliance extensions for Early Reductions of Hazardous Air Pollutants (HAP). The regulations allow a six year MACT standard compliance extension for sources that achieve HAP reductions of 90% (95% for particulates) from a base year of 1987 (or more recent base year). The document includes acceptable emission estimating techniques that can be used when source testing is not feasible. The document includes techniques for synthetic organic chemical manufacturing, ethylene oxide sterilization, and chromium electroplating.
Source: NTIS

Title III List of Lists: Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-to-Know Act (EPCRA) and Section 112(r) of the Clean Air Act, as amended: Title III of the Superfund Amendments and Reauthorization Act of 1986, and Title III of the Clean Air Act Amendments of 1990.
Author: U.S. EPA, Washington, DC, Office of Prevention, Pesticides and Toxic Substances and Office of Solid Waste and Emergency Response
Date: December 1996
Report No.: EPA/550/B-96/015
Abstract: This consolidated list has been prepared to help firms handling chemicals determine whether they need to submit reports under sections 302, 304, or 313 of SARA Title III (EPCRA) and, for a specific chemical, what

reports may need to be submitted. It also helps firms determine whether they will be subject to accident prevention regulations under CAA section 112(r). Separate lists are also provided of RCRA waste streams and unlisted hazardous wastes, and of radionuclides reportable under CERCLA. These lists should be used as a reference tool, not as a definitive source of compliance information.
Source: NCEPI, OCLC

Total Organics Guidance Manual for Stationary Source Emissions.
Author: U.S. EPA, Research Triangle Park, NC, National Exposure Research Lab
Date: 1996
Pages: 11
NTIS No.: PB97-117956
Report No.: EPA/600/A-96/121
Abstract: This guidance manual identifies methods used to measure and report total organics data from stationary source emissions. Total organics data includes: light hydrocarbons and volatile organics (measured using Field Gas Chromatography and Purge and Trap Gas Chromatography), semivolatile organics (measured using a total chromatographic organics method), and nonvolatile organic compounds (measured using a gravimetric analysis method). The methods for measuring and reporting the individual parameters are discussed in detail.
Source: NTIS

Software

Factor Information Retrieval (FIRE) System, Version 5.1 (for Microcomputers).
Author: U.S. EPA, Research Triangle Park, NC, Office of Air Quality Planning and Standards
Date: 1995
Format: Executable compressed files on one diskette
NTIS No.: PB96-500590
Abstract: The FIRE database management system provides easy access to a database of emission factors for 97 of the 189 hazardous air pollutants (HAPs) designated by the Clean Air Act (CAA) 'criteria' pollutants. Emission factors are not intended to represent actual emissions, but are used to estimate air pollutant emissions for a given source when no actual emission data are available. The FIRE system is a menu-driven system with a user interface patterned after Microsoft Windows.
Source: NTIS

Protocol for Equipment Leak Emission Estimates, 1995 (for Microcomputers).
Author: U.S. EPA, Research Triangle Park, NC, Office of Air Quality Planning and Standards
Format: 1 diskette
Date: 1995
NTIS No.: PB96-502653
Abstract: The report presents standard protocols for estimating mass emissions from equipment leaks using different approaches. Several topics relevant to estimating equipment leak emissions (such as speciating emissions) are addressed. Information is provided on how to perform a screening survey at a process unit, how a process unit can collect equipment leak rate data by enclosing individual equipment pieces and measuring mass emissions, and how to estimate the control efficiency of equipment leak control techniques. The document will help facilities generate accurate plant-specific equipment leak emission estimates.
Source: NTIS

Volatile Organic Compound/Particulate Matter Speciation Data Base Management System (SPECIATE), Version 1.5 (on diskette).
Author: U.S. EPA, Office of Air Quality Planning and Standards
Date: February 1993
NTIS No.: PB93-505238INC
Abstract: SPECIATE presents Volatile Organic Compound (VOC) and Particulate Matter (PM) species profiles for more than 400 source categories. The species profiles consist of weight percentages of individual compounds of total VOC and total PM. Speciation factors are used to estimate emissions of air toxics from emission factors or estimates of total VOCs and PM. Speciated emission factors are also presented in the database.
Source: NTIS

GLOBAL WARMING/OZONE

Hotlines

CAA Global Warming/ Ozone

Stratospheric Ozone Information Hotline
Tel: (800) 296-1996 (toll free)
Tel: (301) 614-3396
Fax: (301) 231-6377
Hours: 10:00 a.m. - 4:00 p.m. (EST) M-F
Abstract: The hotline offers consultation on ozone protection regulations and requirements under Title VI of the Clean Air Act Amendments (CAAA) of 1990. Title VI covers the following key aspects of the production, use, and safe disposal of ozone-depleting chemicals: 1) production phaseout and controls; 2) servicing of motor vehicle air conditioners; 3) recycling and emission reduction; 4) technician and equipment certification; 5) approval of alternatives; 6) ban of nonessential uses; 7) product labeling; and 8) federal procurement.

On-line Access

OzonAction Information Clearinghouse
URL: http://www.epa.gov/ozone/intpol/oaic.html
Abstract: This database is designed to provide technical and policy information about the phaseout of ozone-depleting substances and about substitutes and new technologies. U.S. EPA hosts the database which is produced by OzonAction, a program of the United Nations Environment Programme (UNEP).

Ozone/PM-10/Regional Haze Federal Advisory Committee Act (FACA) Site
URL: http://ttnwww.rtpnc.epa.gov/html/ozpmrh/facahome.htm
Abstract: Approaches for implementing revised national ambient air quality standards for ozone and particulate matter.

Stratospheric Ozone Depletion
URL: http://www.epa.gov/ozone/
Abstract: The web site contains information about the science of ozone depletion, regulations in the US designed to protect the ozone layer, information on methyl bromide, flyers about the UV index, information for the general public, and other topics. The hotline offers consultation on ozone protection regulations and requirements under Title VI of the Clean Air Act Amendments (CAAA) of 1990. Title VI covers the following key aspects of the production, use, and safe disposal of ozone-depleting chemicals: 1) production phaseout and controls; 2) servicing of motor vehicle air conditioners; 3) recycling and emission reduction; 4) technician and equipment certification; 5) approval of alternatives; 6) ban of nonessential uses; 7) product labeling; and 8) federal procurement.

Documents

Clean Air Act Section 183(D) Guidance on Cost-Effectiveness.
Author: U.S. EPA, Research Triangle Park, NC, Office of Air Quality Planning and Standards
Date: November 1991
Pages: 24
Notes: See also PB90-169954.
Control No.: 207236310
NTIS No.: PB92-136795
Report No.: EPA/450/2-91/008
Abstract: The document provides guidance on achieving at lower cost the compliance milestones for reductions of ozone precursor emissions to attain and maintain the national ambient air quality standard (NAAQS) for ozone. The report discusses the fundamentals of cost-effectiveness, the role of cost-effectiveness in State implementation plans, a number of important considerations for cost-effectiveness analysis such as rule effectiveness, rule penetration, and multiple pollutant accounting, and applications of cost-effectiveness analysis.
Source: NCEPI, NTIS

Compliance Guidance for Industrial Process Refrigeration Leak Repair Regulations under Section 608 of the Clean Air Act.
Author: U.S. EPA, Chemical Manufacturers Association
Date: 1995
Pages: 65
Report No.: EPA/300/B-95/010
Abstract: This manual explains portions of the August 8, 1995, amendments to the leak repair provisions of the refrigerant recycling regulations. It focuses on aspects of the amendments relevant to industrial process refrigeration systems to assist those affected by the amendments in complying with them. It contains complete flow diagrams, timelines, and question and answer sections. In addition to the guidance, a self-audit checklist (EPA/300/B-96/002) and a training module (EPA/300/B-96/001) for the amendments are available.
Source: Stratospheric Ozone Information Hotline [(800) 296-1996], CMA [(301) 617-7824]

CAA
Global Warming/ Ozone

New Chemical Alternatives for the Protection of Stratospheric Ozone.
Author: Clemson Univ., SC, Dept. of Chemistry and Geology; National Risk Management Research Lab, Cincinnati, OH
Date: July 1995
Pages: 156
NTIS No.: PB95-260220
Report No.: EPA-R-815134; EPA/600/R-95/113
Abstract: The report gives results of an investigation of fluorinated derivatives of propane and butane to determine if synthesis routes of such compounds were feasible and economical and to measure the physical properties needed to evaluate the compounds as alternatives to stratospheric ozone depleters that are to be phased out of production by developed countries in a step-wise progression over the period 1996 to 2030. This work resulted in the investigation of 25 compounds including 15 hydrofluorocarbons (HFCs), 9 hydrochlorofluorocarbons (HCFCs) and 1 hydrofluoroether (HFE). Several of the compounds studied had not been previously synthesized, and this study resulted in improved synthesis methods and a sizeable body of thermophysical property data for each chemical.
Source: NTIS

Videos

Responsible Practices: Servicing and Disposing of Refrigeration Equipment.

Author: U.S. EPA, Office of Compliance; U.S. EPA, Office of Air and Radiation

Date: 1997

Report No.: EPA/305/V-97/001

Abstract: The video provides an overview of the regulations for the maintenance, service, repair and disposal of air conditioning and refrigeration equipment, found in CAA Section 608. The video is targeted at the comfort-cooling and safe disposal sectors. The compliance assistance videotape is a starting point to familiarize industry with the Section 608 regulatory requirements and is not intended to be the sole source for ensuring compliance with these regulations. A brochure on the video can also be ordered (EPA/305/V-97/007).

Source: Stratospheric Ozone Hotline [(800) 296-1996]

CAA
Global Warming/ Ozone

INSPECTION/COMPLIANCE

Documents

Asbestos Hazard Emergency Response Act (AHERA) Inspection Guidance Manual.
Publisher: U.S. EPA, Office of Compliance Monitoring, Washington, DC
Date: 1992
OCLC No.: 28915701
Report No.: EPA/722/B-92/002
Source: OCLC

Benzene Equipment Leak Inspection Manual.
Author: U.S. EPA, Research Triangle Park, NC, Office of Air Quality Planning and Standards
Date: July 1990
Pages: 117
NTIS No.: PB93-199123
Report No.: EPA/340/1-90/001
Abstract: The national emission standard for fugitive benzene emissions requires a combination of monthly monitoring and the installation of specific control equipment to provide the greatest level of control for fugitive benzene emissions. This document provides guidance on inspecting for benzene leaks.
Source: NCEPI, NTIS

CERCLA Compliance with Other Laws Manual: Summary and Part 2. CAA, TSCA, and Other Statutes.
Author: U.S. EPA, Washington, DC, Office of Emergency and Remedial Response
Date: April 90
Pages: 11
NTIS No.: PB90-272550
Control No.: 032026995
Report No.: EPA/9234.2-07/FS
Notes: See also PB90-272543.
Abstract: The fact sheet provides a guide to Chapters 2 and 3 of Part II of the 'CERCLA Compliance With Other Laws Manual.' The sixth in a series, this fact sheet focuses on CERCLA compliance with CAA, TSCA, and FIFRA. In addition, it discusses other statutes that set standards for radioactive wastes, mining wastes, and other resource protection statutes that are potential Applicable or Relevant and Appropriate Requirements (ARARs) for CERCLA actions.
Source: NTIS

Enabling Document for New Source Performance Standards for Air Oxidation Processes and Distillation Operations in the Synthetic Organic Chemical Manufacturing Industry.
Author: U.S. EPA, Research Triangle Park, NC, Office of Air Quality, Planning and Standards
Date: 1990
Pages: 69
NTIS No.: PB92-161967
Report No.: EPA/450/3-90/018
Notes: See also PB90-247487.
Abstract: The document provides specified guidelines for implementation of the New Source Performance Standards for Air Oxidation Processes and Distillation Operations.
Source: NTIS

Enabling Document for Regulations Governing Compliance Extensions for Early Reductions of Hazardous Air Pollutants.
Author: U.S. EPA, Research Triangle Park, NC, Office of Quality Planning and Standards
Date: July 1991
Pages: 150
NTIS No.: PB92-180132
Report No.: EPA/450/3-91/013
Abstract: Regulations have been proposed governing compliance extensions for early reductions of hazardous air pollutants (HAPs). The regulations allow a six year MACT standard compliance extension for sources that achieve HAP reductions of 90% (95% for particulates) from a base year of 1987 (or more recent base year). The document provides practical information on implementation of the Early Reductions Program, including explanations of the requirements and procedures for early reduction demonstration submittals and review of the submittals.
Source: NTIS

CAA Inspection/ Compliance

Environmental Compliance Branch, Standard Operating Procedures and Quality Assurance Manual, Revision 1.
Author: U.S. EPA, Athens, GA, Environmental Services Division
Date: 1991
Pages: 449
NTIS No.: PB91-233650
Abstract: The document contains the field procedures developed by U.S. EPA, Region IV, ESD for investigating hazardous waste sites for the RCRA and Superfund programs, performance of NPDES inspection and air monitoring. In particular, sampling of environmental media and waste, sample handling and preservation, decontamination of field equipment, installation of monitoring wells, and field quality assurance procedures are described. Sampling equipment is discussed and described. Surveying requirements for site characterization are given.
Source: NTIS

HON Inspection Tool.
Author: U.S. EPA, Office of Enforcement and Compliance Assurance (OECA), Office of Compliance
Date: September 1997
Pages: 262, two volumes
Report No.: EPA/305/B-97/006
Abstract: The document is designed to assist Federal, state, and local regulatory personnel with enforcement of the process vent, transfer operation, storage vessel and wastewater provisions of the HON. Volume I contains descriptions of the background information on emission points and control technologies. These descriptions cover process vents, transfer operations, storage vessels, and wastewater provisions. Volume II contains checklists to assist the inspector during actual inspections.
Source: NCEPI

Implementation Strategy for the Clean Air Act Amendments of 1990 Update, November 1995.
Author: U.S. EPA, Office of Air and Radiation
Date: 1995
Pages: 23
OCLC No.: 35047263
Report No.: EPA/410/K-95/001
Source: OCLC

Inspection Manual: Equipment Leak Regulations for the Chemical Manufacturing Industry.
Author: U.S. EPA, Office of Enforcement and Compliance Assurance (OECA), Office of Compliance
Date: February 1998
Pages: 300, three volumes
Report No.: EPA/305/B-96/005
Abstract: Volume I provides inspection procedures for determining compliance for equipment leak regulations promulgated under Parts 60, 61, and 63 of CAA and Parts 264 and 265 of RCRA, including sections on determining applicability, determining compliance through reports, recordkeeping and on-site inspections, as well as providing recommended inspection techniques and procedures. Volume II provides a side by side summary of equipment leak provisions, a summary of differences, a summary by component, a discussion of regulated equipment, and supporting test methods. Volume III provides the same information for regulations promulgated under Parts 60 and 63 for the petroleum industry.
Source: NCEPI

Multi-Media Compliance Inspection Manual for Enforcement Programs in Air, Water, RCRA, CERCLA, TSCA & FIFRA. Fourth edition.
Author: U.S. EPA, Washington, DC, Office of Enforcement and Compliance Monitoring
Date: 1989
Call No.: KF3775.M8 1989
OCLC No.: 20533402
Source: OCLC

Checklists

Self-Audit Checklist for Industrial Process Refrigeration Leak Repair Regulations under Section 608 of the Clean Air Act.

CAA
Inspection/ Compliance

Author: U.S. EPA, Chemical Manufacturers Association
Date: 1996
Report No.: EPA/300/B-96/002
Abstract: This self-audit checklist helps members of the regulated community determine their compliance status with portions of the August 5, 1995, amendments to the leak repair provisions of the refrigerant recycling regulations. It was developed for use in conjunction with the *Compliance Guidance for Industrial Process Refrigeration Leak Repair Regulations under Section 608 of the Clean Air Act* (EPA/300/B-95/010). The self-audit checklist is available on disk from CMA.
Source: Stratospheric Ozone Information Hotline [(800) 296-1996] or CMA [(301) 617-7824]

Training

Guide to Effective Inspection Reports for Air Pollution Violations. Stationary Source Compliance Training Series.

Author: U.S. EPA, Office of Air Quality Planning and Standards, Research Triangle Park, NC
Date: 1985
Pages: 57
NTIS No.: PB93-199107
Report No.: EPA/340/1-85/019
Abstract: The guide was prepared primarily to assist State and local air pollution control agency inspectors. It is not intended to be a general guide to writing inspection reports, but rather focuses specifically on documenting violations found during inspections. Some agencies may limit the role of the inspector in the enforcement process to on-site fact gatherers. The guide is aimed at the more common agency policy of giving the inspector a major role in determining whether or not a violation occurred, and for making recommendations as to follow-up actions.
Source: NTIS

Training Module for Industrial Process Refrigeration Leak Repair Regulations under Section 608 of the Clean Air Act.

Author: U.S. EPA, Chemical Manufacturers Association
Pages: 40
Report No.: EPA/30/B-96/001
Abstract: The training module, comprised of PowerPoint slides, helps members of the regulated community explain portions of the August 5, 1995, amendments to the leak repair provisions of the refrigerant recycling regulations to their employees. It was developed for use in conjunction with the *Compliance Guidance for Industrial Process Refrigeration Leak Repair Regulations under Section 608 of the Clean Air Act* (EPA/300-B-95/010). CMA sells a version with disks so the user may tailor the presentation to the company's or facility's needs.
Source: Stratospheric Ozone Information Hotline [(800) 296-1996] or CMA [(301) 617-7824]

PERMITTING

Documents

CAA Permitting

Federal Operating Permits Program under Title V of the Clean Air Act: Final Report.
Author: U.S. EPA, Region II; Information Transfer and Program Division; U.S. EPA, Office of Air Quality Planning and Standards; Midwest Research Institute (Kansas City, Mo.)
Date: 1996
OCLC No.: 35793696
Report No.: EPA/456/R-96/004
Source: OCLC

Permitting For Clean Air, A Guide to Permitting under Title V of the Clean Air Act Amendments of 1990.
Author: Burke, Robert L.
Publisher: Air & Waste Management Association, Pittsburgh, PA
Date: 1992
Pages: 73
OCLC No.: 27230118
Source: OCLC

Software

Hazardous Air Pollutant Program (HAP-PRO) Model (Version 2.0) (on diskette).
Author: U.S. EPA, Office of Air Quality Planning and Standards
Date: December 1994
NTIS No.: PB95-503181INC
Abstract: HAP-PRO is designed to assist permit engineers in reviewing applications for control of air toxics. HAP-PRO calculates the capital and annual costs for up to six different VOCs and three particulate matter control devices. Calculations mirror those presented in the U.S. EPA handbook, 'Control Technologies for Hazardous Air Toxics' (June 1991, EPA- 625/6-91-014) and the U.S. EPA 'Control Cost Manual' (March 1990)(EPA-45-/3-90/006).
Source: NTIS

SAMPLING AND MONITORING

Documents

Applicability of Canister Sampling for Hazardous Air Pollutants.
Author: U.S. EPA, Research Triangle Park, NC, Atmospheric Research and Exposure Assessment Lab
Date: March 1994
Pages: 31
Notes: See also PB85-191112.
NTIS No.: PB95-155404
Report No.: EPA/600/A-94/239
Abstract: The report evaluates the applicability of sampling with evacuated canisters for volatile organic compounds listed among the 189 Hazardous Air Pollutants (HAPs) in the 1990 US Clean Air Act Amendments. Nearly 100 HAPs have sufficient vapor pressure to be considered volatile compounds. Of those volatile organic HAPs, 52 have been tested previously for stability during storage in canisters. The published HAP stability studies are reviewed, illustrating that for nearly all of the 52 HAPs tested, canisters are an effective air sampling approach. A comparison of chemical and physical properties of the HAPs has been conducted, to evaluate the applicability of canister sampling for other HAPs, for which canister stability testing has never been conducted.
Source: NTIS

Guidance for Estimating Ambient Air Monitoring Costs for Criteria Pollutants and Selected Air Toxic Pollutants.
Author: U.S. EPA, Research Triangle Park, NC, Technical Support Division
Date: October 1993
Pages: 180
Report No.: EPA/454/R-93/042
NTIS No.: PB94-128535INZ
Source: NTIS

Sampling for Organic Chemicals in Air.
Author: U.S. EPA, Research Triangle Park, NC, Atmospheric Research and Exposure Assessment Lab
Date: 1994
Pages: 130
NTIS No.: PB95-128112
Report No.: EPA/600/A-94/183
Abstract: More than 90% of the 75,000 chemicals listed in U.S. EPA's Toxic Substances Control Act Chemical Substance Inventory and 88% of the 189 Hazardous Air Pollutants (HAPs) named in the Clean Air Act Amendments of 1990 are organic. The various methods of sampling airborne organics are reviewed and discussed here and 275 literature citations are given. Special sampling difficulties associated with chemical behavior in the atmosphere, such as reactivity and phase distribution, are discussed. The pros and cons of sampling devices, sorbents, and other sampling parameters are presented in the context of chemical type, with special application to the Clean Air Act HAPs. The elements of good quality assurance practice in organic chemical air sampling are also discussed.
Source: NTIS

Software

Environmental Monitoring Methods Index (EMMI), Version 2.0 (Single User) (for Microcomputers).

Author: U.S. EPA, Washington, DC, Office of Science and Technology
Date: July 1995
Format: 4 diskettes
NTIS No.: PB95-501748
Order No.: PB95-502407

CAA
Sampling/ Monitoring

Abstract: The U.S. EPA's EMMI software assists users in comparing and evaluating analytical methods applicable to environmental pollutants of interest. EMMI combines rapid search capabilities with a user-friendly interface. It provides CAS numbers, regulatory lists, regulatory limits, and method abstracts. EMMI also contains information on contact points within offices and organizations responsible for publishing the analytical methods or regulatory information contained in EMMI. The database contains more than 4,000 substances from 47 regulatory and non-regulatory lists, including substances from SARA, CERCLA, SDWA, CAA, CWA, and other agency lists. Comprehensive cross-reference databases are provided for more than 18,500 substances. One new feature provides method-matrix grouping to enable users to quickly find methods according to type of matrix, e.g. air, water, etc. Users can search for information in any one of the following categories: chemical names, trade names, or synonyms; CAS registry number; apparatus; analytical method number; regulatory origin; custodial organization; short or full title of the method; and matrix.
Source: NTIS

CLEAN WATER ACT SOURCES

Brief History of the Clean Water Act (CWA)

1972 - Congress passed the Federal Water Pollution Control Act Amendments of 1972 to "restore and maintain the chemical, physical, and biological integrity of the nation's waters."

- Created the National Pollutant Discharge Elimination System (NPDES) permit program, making it illegal to discharge pollution from point sources without a permit.
- Required states to establish total maximum daily loads for pollutants in their waters and best available technology standards for industry.
- Required an upgrade of municipal wastewater facilities from primary to secondary treatment.
- Created a national pretreatment program.

1977 - Clean Water Act of 1977 (formerly known as the Federal Water Pollution Control Act)

- Expanded U.S. EPA's ability to control the release of toxic pollutants into collection systems and surface waters by setting national pretreatment standards.
- Allowed states to assume responsibility for Federal programs like the Construction Grants Program.

1987 - Water Quality Act of 1987

- Established national program to control nonpoint sources of water pollution by establishing state nonpoint source assessments and management programs and developing NPDES permit applications for Phase I storm water discharges.
- Created the National Estuary Program.
- Created revolving loan funds to provide ongoing support for the construction of treatment plants.

Regulations pertaining to water programs can be found in 40 CFR Chapter I Subchapter D, available on-line at http://www.epa.gov/docs/epacfr40/chapt-I.info/subch-D/. Check the *Federal Register* for new rules, proposed rules and notices at http://www.access.gpo.gov/su_docs/aces/aces140.html

CWA
General

GENERAL

Hotlines

Office of Water Resource Center
Tel: (202) 260-7786
Fax: (202) 260-0386
Hours: 8:30 a.m.-5 p.m. (EST) M-F
Abstract: U.S. EPA's Water Resource Center (WRC) distributes documents and other materials produced by the Office of Ground Water and Drinking Water, the Office of Science and Technology, and the Office of Wastewater Management, and provides limited research assistance to locate materials from these offices. The WRC facilitates access to materials produced by the sponsoring offices for U.S. EPA, businesses, the regulated community, and the general public.

Wetlands Information Hotline
Tel: (800) 832-7828 [U.S.]
Tel: (703) 525-0985 [International]
E-mail: wetlands-hotline@epamail.epa.gov
Hours: 9:00 a.m. - 5:30 p.m. (EST)
Abstract: The hotline responds to requests about the values and function of wetlands and options for their protection. Callers are directed to appropriate regulatory agencies or additional sources of information when necessary. The hotline provides information on the availability of wetlands-related documents, and accepts requests for certain wetlands publications.

EnviroSense
Common Sense Solutions to Environmental Problems

**** Reminder **** - For the most up-to-date information, check U.S. EPA's Enviroene web site, http://es.epa.gov, or check with a local technical assistance provider (see Appendix B).

To obtain the materials listed, see page 2.

CWA TOC

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On-line Access

EPA's Office of Water
URL: http://www.epa.gov/ow
Abstract: This site is the home page for U.S. EPA's Office of Water. The site contains up-to-date calendar current events, press releases and announcements. It links to programs of interest, publications, legislation, databases, and other topics.

CWA General

Office of Water Resource Center
URL: http://www.epa.gov/OST/rescnter.html
E-mail: waterpubs@epamail.epa.gov
Abstract: See Hotlines section in this chapter.

Surf Your Watershed
URL: http://www.epa.gov/surf
Abstract: This site allows viewers to search state water assessment data, view ongoing river and wetland restoration projects, join discussions, search for services to help their communities revitalize their rivers, and look through the Index of Watershed Indicators, a compilation of information on the health of aquatic resources in the United States. It also allows the user to add information to the databases.

Wastewater Treatment Information Exchange Bulletin Board System (WTIE-BBS)
Modem: (800) 544-1936
Telnet: fedworld.gov and select #37 WTIE-BBS from the Energy and Environment Gateway
Tel: (800) 624-8301
Fax: (304) 293-3161
Hours: 8:00 a.m. - 5:00 p.m. (EST) M-F (voice)
Abstract: This computer bulletin board, maintained at the National Small Flows Clearinghouse, provides a direct forum for discussion of ideas and exchange of information about small community and on-site wastewater systems. WTIE-BBS is a free service, accessible anywhere in the United States on a 24-hour basis. It allows users to post questions and notices, review information files, search a bibliographic database and download information.

Documents

Clean Water Act (excluding Section 404). Environmental Guidance Program Reference Book - Revision 6.
Author: Oak Ridge National Lab., TN; Department of Energy, Washington, DC
Date: January 1993
Pages: 578
Report No.: ORNL/M-2263
NTIS No.: DE93013751INZ
Source: NTIS

Clean Water Act - A Primer.
Author: U.S. EPA, Washington, DC, Office of Water
Date: April 1992
Pages: 21
NTIS No.: PB94-102084INZ
Abstract: The primer is based on documents prepared by the U.S. EPA and the Bureau of National Affairs, and covers a number of the significant provisions of the Clean Water Act as amended by the Water Quality Act of 1987.
Source: NTIS

Clean Water Act (Section 404) and Rivers and Harbors Act (Sections 9 and 10). Environmental Guidance Program Reference Book, Revision 4.
Author: Oak Ridge National Lab., TN; Department of Energy, Washington, DC
Date: March 1992
Pages: 196
Report No.: ORNL/M-1573
NTIS No.: DE92016882INZ
Source: NTIS

Clean Water Act Section 403 - Compendium.
Author: U.S. EPA, Washington, DC, Office of Wetlands, Oceans and Watersheds

Date: May 1994
Pages: 47
Report No.: EPA/842/B-94/002
NTIS No.: PB94-187358INZ
Abstract: U.S. EPA's regulatory program under section 403 of the Clean Water Act (CWA) is an integral part of the National Pollutant Discharge Elimination System (NPDES) permit program for ocean discharges. Section 403 requires that discharges to the territorial seas, contiguous zones, and oceans comply with regulatory requirements above and beyond those specifically required of a typical NPDES permit. This collection is organized according to the following categories: Guidance; Regulations/Policy Memos; Reports to Congress; Regional Documentation; Permit-Related Information; and Scientific Products and Models. Within these categories, document citations, sorted alphabetically, include the following attributes: Abstract; U.S. EPA Document Number; Date of Publication; and Publication Contact. The following three appendices are also included: Legal Cases; Bulletins and Fact Sheets; and Courses, Conferences, and Workshops.
Source: NCEPI, NTIS

Final Guidance for Implementation of Requirements under Section 304(1) of the Clean Water Act as Amended.
Author: U.S. EPA, Office of Water Enforcement and Permits; U.S. EPA, Office of Water Regulations and Standards
Date: March 1988
Pages: 74
OCLC No.: 17981713
NTIS No.: PB95-156824INZ
Abstract: This guide provides specific information for States and Regions on interpretation of the statutory requirements of Section 304(1), as amended, and places the new requirements in the context of the ongoing nationwide programs for controlling toxic pollutants and toxicity. Section 304(1) requires States to develop lists of impaired waters, identify point sources and amounts of pollutants they discharge that cause toxic impacts, and individual control strategies for each such point source. These individual control strategies are designed to ensure that applicable water quality standards are achieved by no later than June 1992. Controls for these pollutants must be established as soon as possible but no later than the statutory time frames set forth in Section 304(1).
Source: OCLC

Guidance Manual for Developing Best Management Practices (BMP).
Author: U.S. EPA, Washington, DC, Office of Water
Date: 1993
Pages: 202
NTIS No.: PB94-178324
Report No.: EPA/833/B-93/004
Notes: See also PB90-256611.
Abstract: Table of Contents: Introduction to Best Management Practices (BMP); BMP Plan Development; Industry-Specific BMP (Metal Finishing; Organic Chemicals, Plastics, and Synthetic Fibers Manufacturing; Textiles Manufacturing; Pulp and Paper Manufacturing; Pesticides Formulation; Pharmaceuticals Manufacturing; Primary Metals Manufacturing; Petroleum Refining; and Inorganic Chemicals Manufacturing); Resources Available for Determining BMP; BMP Plan Development Checklists; and Theoretical Decision-Making Process for BMP Plan Development.
Source: NTIS

Introduction to Water Quality-Based Toxics Control for the NPDES Program.
Author: U.S. EPA, Washington, DC, Office of the Assistant Administrator for Water
Date: 1992
Pages: 47
Notes: See also PB91-127415.
NTIS No.: PB93-207967
Report No.: EPA/831/S-92/002
Contents: The Scientific Necessity to Protect Water Quality; The Legal Authority to Protect Water Quality; (National Pollutant Discharge Elimination System (NPDES) Permit Program, The Integrated Approach to Water Quality-Based Toxics Control); Capabilities and Limitations of Whole Effluent Toxicity Testing; Scientific Concepts in Toxicity Testing; Practical Aspects of Whole Effluent Toxicity Testing; Compliance with Whole Effluent Toxicity Limits; Violations of Permits Having Whole Effluent Toxicity Limits; Appendix A: U.S. EPA's Authority to Regulate Toxicity; Appendix B: Excerpts Taken From Sample NPDES Permits and Relevant to Whole Effluent Toxicity Testing; Appendix C: Documents Relevant to Toxicity Testing; Appendix D: Glossary.
Source: NTIS

Overview of the U.S. Effluent Guidelines Program.
Author: U.S. EPA, Washington, DC, Office of Water
Date: June 1991
Pages: 22
NTIS No.: PB95-207577INZ
Source: NTIS

Process-Based Self-Assessment Tool for the Organic Chemical Industry.
Author: U.S. EPA, Washington, DC, Office of Enforcement and Compliance Assurance
Date: December 1997
Pages: 400
Report No.: EPA/305/B-97/002
Abstract: This guide is a resource on Federal environmental regulations for small-to-medium-sized organic chemical manufacturing facilities. This manual 1) provides a general approach for performing a multimedia self-assessment to evaluate compliance with environmental regulations, and 2) provides industry-specific process and regulatory information necessary for conducting an assessment at an organic chemical manufacturing facility. The general approach section describes the steps for planning, conducting, and following up a multimedia self-assessment. Industry-specific information is given to supplement the generic self-assessment approach. This document describes processes found throughout the chemical manufacturing industry and identifies potential releases from each process and associated environmental legislation. Additional regulatory requirements (such as applicability, exemptions, monitoring, record keeping, and reporting) potentially affecting organic chemical manufacturers are summarized by statute in the appendices.
Source: NCEPI, U.S. EPA web site (http://www.epa.gov)

Total Maximum Daily Load (TMDL) Program: Policy and Guidance. Volume 1.
Author: U.S. EPA, Washington, DC, Office of Wetlands, Oceans and Watersheds
Date: February 1997
NTIS No.: PB97-142749
Abstract: Statute; Regulations; Programmatic Guidance; Technical Guidance and Other Supplemental Information; Case Studies; Miscellaneous.

INSPECTION/COMPLIANCE

Documents

Compliance Evaluation Inspection Reports.
Author: U.S. EPA, Denver, CO, Water Management Division; U.S. EPA, Washington, DC
Date: 1990--1993
Report No.: Contact NTIS
Abstract: This series of approximately 40 reports presents the findings of compliance evaluation inspections of industrial dischargers.
Source: NTIS

Enforcement Management System: National Pollutant Discharge Elimination System. (Clean Water Act).
Author: U.S. EPA, Washington, DC, Office of Water
Date: 1989
Pages: 360
NTIS No.: PB95-156527INZ
Abstract: This document describes the Enforcement Management System (EMS) for the National Pollutant Discharge Elimination System (NPDES) Program. The Enforcement Management System is a process to collect, evaluate, and translate compliance information into timely and appropriate enforcement actions. The process is supplemented by chapters on various procedures, policies and regulations.
Source: NTIS

Environmental Compliance Branch, Standard Operating Procedures and Quality Assurance Manual, Revision 1.
Author: U.S. EPA, Athens, GA, Environmental Services Division
Date: 1991
Pages: 449
NTIS No.: PB91-233650
Abstract: The document contains the field procedures developed by U.S. EPA, Region IV, ESD for investigating hazardous waste sites for the RCRA and Superfund programs, performance of NPDES inspection and air monitoring. In particular, sampling of environmental media and waste, sample handling and preservation, decontamination of field equipment, installation of monitoring wells, and field quality assurance procedures are described. Sampling equipment is discussed and described. Surveying requirements for site characterization are given.
Source: NTIS

Guidance for Conducting a Pretreatment Compliance Inspection.
Author: U.S. EPA, Washington, DC, Office of Water
Date: September 1991
Pages: 148
NTIS No.: PB94-120631
Report No.: EPA/300/R-92/009
NEIS No.: 1681
Abstract: The document provides guidance to the inspector on each step of conducting a PCI inspection, including preparation for the inspection, review of Industrial User (IU) files, visits to IUs, interview and closing conference with the CA, and follow-up reporting. In addition, the guidance provides instructions for using the POTW PCI Checklist, which was designed to facilitate the collection of data and ensure that all necessary information is reviewed and documented. The Checklist is intended to be used as a framework for organizing information that is reviewed or received during a PCI and serves as a reminder to assess the compliance status of the CA's pretreatment program implementation as required through its NPDES permit. The manual also includes reference materials: an in-depth explanation of all Checklist questions; a bibliography of materials applicable to development, implementation and oversight of POTW pretreatment programs; and, a list of development documents for categorical industries.
Source: NTIS, NEIS

Guidance for NPDES Compliance Inspectors: Inspection of Sludge.
Date: 1995
NTIS No.: PB95-157780
NEIS No.: 1744
Source: NEIS

Guidance on the Documentation and Evaluation of Trace Metals Data Collected for Clean Water Act Compliance Monitoring.
Date: 1996
Report No.: EPA/821/B-96/002
Abstract: The document contains guidance that is intended to aid in the review of trace metals data submitted for compliance monitoring purposes under the National Pollutant Discharge Elimination System (NPDES) when these data are collected in accordance with Method 1669 and analyzed by the 1600 Series Analysis Methods. Chapter 2 of the document outlines the data elements that must be reported by laboratories and permittees so that U.S. EPA reviewers can validate the data. Chapter 3 provides guidance concerning the review of data collected and reported in accordance with Chapter 2. Chapter 4 provides a Data Inspection Checklist that can be used to standardize procedures for documenting the findings of each data inspection.
Source: NCEPI

CWA
Inspection/ Compliance

Multi-Media Compliance Inspection Manual for Enforcement Programs in Air, Water, RCRA, CERCLA, TSCA & FIFRA. Fourth edition.
Author: U.S. EPA, Washington, DC, Office of Enforcement and Compliance Monitoring
Date: 1989
OCLC No.: 20533402
Call No.: KF3775.M8 1989
Source: OCLC

NPDES Compliance Inspection Manual.
Author: U.S. EPA, Office of Enforcement and Compliance Assurance, Washington, DC
Date: September 1994
Pages: 600
OCLC No.: 32527323
Report No.: EPA/300/B-94/014
NTIS No.: PB95-200606
NEIS No.: 1285
Abstract: This manual is an update of the 1988 NPDES Compliance Inspection Manual. The information presented in this manual will guide a qualified inspector in conducting an adequate inspection. It presents standard procedures for inspection; it is assumed that the inspector has a working knowledge of wastewater and related problems, regulations and control technologies.
Source: OCLC, NEIS

Verifying Compliance with Sludge Requirements. Guidance for NPDES Compliance Inspectors.
Author: U.S. EPA, Washington, DC, Office of Water Enforcement and Permits
Date: November 1991
Pages: 41
Notes: See also PB88-186101 and PB88-186119.
Report No.: EPA-68-C8-0066
NTIS No.: PB94-125739INZ
Abstract: The document provides guidance to NPDES inspectors for conducting inspections of facilities which have sludge conditions established in their NPDES permit.
Source: NTIS

Training

NPDES Compliance Monitoring Inspector Training Module: Biomonitoring.
Author: U.S. EPA, Washington, DC, Office of Water Enforcement and Permits
Date: August 1990
Pages: 86
Notes: See also PB82-136367.
NTIS No.: PB91-145854
Abstract: The document is one of five training modules developed by the Office of Water Enforcement and Permits, U.S. EPA, to introduce the NPDES program to new inspectors. This module outlines the principles of biomonitoring and the role of biological testing in the inspection program.
Source: NTIS, NEIS, GPO

NPDES Compliance Monitoring Inspector Training Module: Laboratory Analysis.
Author: U.S. EPA, Washington, DC, Office of Water Enforcement and Permits
Date: August 1990
Pages: 139
Notes: See also PB82-136383.
NTIS No.: PB91-145870
Abstract: The document is one of five training modules developed by the U.S. EPA's Office of Water Enforcement and Permits to introduce the NPDES program to new inspectors. This module has been organized to highlight the major components involved in a laboratory evaluation conducted as part of a CEI (Compliance Evaluation Inspection) and in a more comprehensive laboratory evaluation conducted during a PAI (Performance Audit Inspection). The module provides the inspector with background information necessary to conduct an appropriate evaluation of the permittee's laboratory procedures for sample control, sample analysis, and quality assurance, as well as to assess the adequacy of the laboratory facilities and equipment. Additional sources of information are provided in the references identified throughout the text of the module and summarized in Appendix A. A glossary of terms used in the module appears as Appendix B.
Source: NTIS, NEIS, GPO

NPDES Compliance Monitoring Inspector Training Module: Legal Issues.
Author: U.S. EPA, Washington, DC, Office of Water Enforcement and Permits
Date: August 1990
Pages: 123
NTIS No.: PB91-145680
Abstract: The document is one of five training modules developed by the U.S. EPA's Office of Water Enforcement and Permits to introduce the NPDES program to new inspectors. This module discusses the legal issues which must be addressed during an inspection and provides legal information to assist inspectors in performing their duties.
Source: NTIS, NEIS

CWA
Inspection/ Compliance

NPDES Compliance Monitoring Inspector Training Module: Overview.
Author: U.S. EPA, Washington, DC, Office of Water Enforcement and Permits
Date: August 1990
Pages: 114
NEIS No.: 1022
Abstract: The document is one of five training modules developed by the U.S. EPA's Office of Water Enforcement and Permits to introduce the NPDES program to new inspectors. This module presents an overview of the NPDES program and briefly summarizes different types of inspections conducted under the program.
Source: NEIS

NPDES Compliance Monitoring Inspector Training Module: Sampling Procedures.
Author: U.S. EPA, Washington, DC, Office of Water Enforcement and Permits
Date: August 1990
NEIS No.: 1023
Abstract: The document is one of five training modules developed by the U.S. EPA's Office of Water Enforcement and Permits to introduce the NPDES program to new inspectors. This module details procedures to be used when conducting sampling and flow monitoring.
Source: NEIS

PERMITTING

Documents

CWA Section 403: Procedural and Monitoring Guidance.
Author: U.S. EPA, Washington, DC, Office of Wetlands, Oceans and Watersheds
Date: March 1994
Pages: 343
NTIS No.: PB94-181591
Report No.: EPA/842/B-94/003
Abstract: The document provides Regions and NPDES-authorized States with a framework for the decision-making process to be followed in making a section 403 determination and to provide them with guidance for identifying the type and level of monitoring that should be required as part of a permit issued under the no irreparable harm provisions of section 403. Chapter 2 explains the overall process to be followed when issuing an NPDES permit in compliance with section 403. Chapter 3 discusses options for monitoring under the basis of no irreparable harm. Chapter 4 presents a summary of monitoring methods with potential applications to 403 discharges.
Source: NCEPI , OLS

Guidance Manual for the Preparation of NPDES Permit Applications for Storm Water Discharges Associated with Industrial Activity.
Author: U.S. EPA, Washington, DC, Office of the Assistant Administrator for Water
Date: April 1991
Pages: 213
Report No.: EPA/505/8-91/002
NTIS No.: PB92-114578INZ
NEIS No.: 236
Abstract: The purpose of this manual is to assist operators of facilities which discharge storm water associated with industrial activity in complying with the requirements for applying for an NPDES permit. This manual provides operators with an overview of the permitting process and information regarding the permit application requirements including: which forms are to be completed; where these are to be submitted; and when permit applications are due. In addition, this manual provides technical information on sample collection procedures.
Source: NCEPI, NTIS

Industrial User Permitting Guidance Manual.
Publisher: Government Institutes, Inc., Rockville, MD
Date: 1990
OCLC No.: 22167817
ISBN: 086587204X
Source: OCLC

Interim Guidance for Performance-Based Reduction of NPDES Permit Monitoring Frequencies.
Author: U.S. EPA, Washington, DC, Office of Water
Date: April 1996
Pages: 25
NTIS No.: PB96-188230
Report No.: EPA/833/B-96/001
Abstract: This document provides guidance to U.S. EPA permit writers and States on how best to implement U.S. EPA's National Pollutant Elimination System (NPDES) regulations regarding appropriate monitoring requirements in permits. It also provides guidance to the public and to the regulated community on how U.S. EPA intends to exercise its discretion in implementing its regulations. The guidance is designed to implement national policy on these issues. Pretreatment control authorities also may find it helpful in setting monitoring frequency for industrial users of POTWs.
Source: NTIS

NPDES Industrial Permit Abstracts 1993. 6th ed.
Publisher: U.S. EPA, Washington, DC
Date: October 1993
Pages: 488
OCLC No.: 32174022
Report No.: EPA/833/B-93/005
Abstract: The updated permit abstracts version reflects NPDES program progress and recent policies and initiatives. These abstracts were written based on voluntary submissions of NPDES industrial wastewater permits from 37 states. The permit abstracts are organized into five sections: general information, permit summary information, outfall information, special conditions information, and dates. These abstracts are indexed by subjects for quick searches. The remaining discussion is on the contents of the five sections of the abstract.
Source: OCLC

NPDES Permit Handbook. 2nd ed.
Author: Miller, Leonard A.
Publisher: Government Institutes, Rockville, MD
Date: 1992
Pages: 323
OCLC No.: 26208108
LCCN: 92081921
ISBN: 0865873038
Source: OCLC

Providing Waivers from NPDES Permit Compliance Schedules for Industrial Pollution Prevention Technology. The Industrial Pollution Prevention Project (IP3) Analysis of Sections 301(k) and 307(e) of the Clean Water Act.
Author: U.S. EPA, Washington, DC, Office of Water
Date: May 1994
Pages: 60
Report No.: EPA/820/R-94/003
NTIS No.: PB94-219037INZ
Abstract: The Office of Water has initiated an Industrial Pollution Prevention Project (IP3) to look at how best to promote multi-media pollution prevention in its current and future regulatory activities. One facet of the IP3 is to explore the degree to which the Section 301(k) innovation waiver provision under the CWA has been, or could become, an effective vehicle for promoting the development and implementation of innovative pollution prevention technologies. While 301(k) variance provision for direct dischargers expired in March 1991, a parallel provision for indirect dischargers, 307(e), is still in effect. Further, the 301(k) provision could be reactivated by Congress during the current CWA reauthorization.
Source: NCEPI, NTIS

SLUDGE

Documents

CWA Sludge

Land Application of Sewage Sludge: A Guide for Land Appliers on the Requirements of the Federal Standards for the Use or Disposal of Sewage Sludge, 40 CFR Part 503.

Author: U.S. EPA, Washington, DC, Office of Enforcement and Compliance Assurance
Date: December 1994
Pages: 104
NTIS No.: PB95-191987
Report No.: EPA/831/B-93/002B
Abstract: 40 CFR Part 503 imposes requirements for the land application, surface disposal, and incineration of sewage sludge. The manual focuses on land application, providing guidance to land appliers of sewage sludge. The purpose of the document is to provide the land applier with sufficient guidance to comply fully with all applicable Part 503 requirements. The guidance is structured to first provide a general understanding of the Rule and its underlying principles, including definitions of sewage sludge, land application, and an explanation of who under the Rule is considered a land applier.
Source: NTIS

Surface Disposal of Sewage Sludge: A Guide for Owners/Operators of Surface Disposal Facilities on the Monitoring, Recordkeeping, and Reporting Requirements of the Federal Standards for the Use or Disposal of Sewage Sludge, 40 CFR Part 503.

Author: U.S. EPA, Washington, DC, Office of Water
Date: May 1994
Pages: 52
NTIS No.: PB94-217056
Report No.: EPA/831/B-93/002C
Notes: See also PB94-102415
Abstract: The document was developed for owners/operators of surface disposal sites. It provides detailed guidance on the monitoring, recordkeeping, and reporting requirements for surface disposal. The document is intended to assist owners/operators in complying with Part 503 by explaining requirements and providing examples of appropriate information.
Source: NTIS

STORM WATER

Hotlines

Stormwater Hotline
Tel: (703) 821-4823
Abstract: This U.S. EPA-sponsored, contractor-operated hotline is a source of additional information about the Section 402 stormwater program that requires permits for stormwater discharges.

CWA
Storm Water

Documents

Guidance for the Preparation of Discharge Monitoring Reports: Facilities Required to Report Semi-Annual Results under NPDES Storm Water General Permits.
Pages: 20
Report No.: EPA/833/B-93/002
Abstract: This document is intended to: clarify which industrial activities are required to report their storm water discharge monitoring results, identify parameters to be monitored, provide instructions on reporting results on a Discharge Monitoring Report (DMR), and list state-specific regulations.
Source: NCEPI

Guidance Manual for the Preparation of NPDES Permit Applications for Storm Water Discharges Associated with Industrial Activity.
Author: U.S. EPA, Washington, DC, Office of the Assistant Administrator for Water
Date: April 1991
Pages: 213
Report No.: EPA/505/8-91/002
NTIS No.: PB92-114578INZ
NEIS No.: 236
Abstract: The purpose of this manual is to assist operators of facilities which discharge storm water associated with industrial activity in complying with the requirements for applying for an NPDES permit. This manual provides operators with an overview of the permitting process and information regarding the permit application requirements including: which forms are to be completed; where these are to be submitted; and when permit applications are due. In addition, this manual provides technical information on sample collection procedures.
Source: NCEPI, NTIS

NPDES Storm Water Sampling Guidance Document.
Date: July 1992
Pages: 120
Report No.: EPA/833/B-92/001
NTIS No.: PB92-227669
NEIS No.: 332
Source: NCEPI, NEIS

NPDES Storm Water Question and Answer Document. Volumes 1 and 2.
Date: March 1992 (Vol. 1), July 1993 (Vol. 2)
Report No.: EPA/833/F-93/002 (Vol. 1), EPA/833/F-93/002B (Vol. 2)
NEIS No.: 1128 (Vol. 1), 1147 (Vol. 2)
Abstract: Questions and answers about storm water. Also includes a list of storm water contacts, state NPDES program status, regulatory definitions, and industrial classifications of auxiliary status.

Overview of the Storm Water Program.
Date: December 1991
Pages: 11
NEIS No.: 366
Abstract: This report summarizes requirements of the discharge of stormwater.
Source: NEIS

Storm Water Management for Industrial Activities: Developing Pollution Prevention Plans and Best Management Practices.
Publisher: U.S. EPA, Office of Water, Washington, DC
Date: October 1992
Pages: 360
Report No.: EPA/833/R-92/006
NTIS No.: PB92-235969
NEIS No.: 475
Abstract: This document provides technical assistance and support to all facilities subject to pollution prevention requirements established under NPDES permits for storm water point source discharges. Specifically, the manual provides guidance on developing pollution prevention plans.
Source: NEIS

CWA
Storm Water

Storm Water Management for Industrial Activities: Developing Pollution Prevention Plans and Best Management Practices: Summary Guidance.
Publisher: U.S. EPA, Office of Water, Washington, DC
Date: October 1992
Pages: 53
Report No.: EPA/833/R-92/002
OCLC No.: 28005391
NEIS No.: 812
Abstract: This booklet provides industrial facilities with summary guidance on the development of storm water pollution prevention plans and identification of appropriate Best Management Practices (BMPs). It provides technical assistance and support to all facilities subject to pollution prevention requirements established under NPDES permits for storm water point source discharges.
Source: OCLC, NEIS

EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT SOURCES

Brief History of the Emergency Planning and Community Right-to-Know Act

1986 - In response to the disaster in Bhophal, India, Congress passed the Emergency Planning and Community Right-to-Know Act (EPCRA) to help local communities protect public health, safety and the environment from chemical hazards. EPCRA has four main provisions that address planning for chemical emergencies; emergency notification of chemical accidents and releases; reporting of hazardous chemical inventories; and reporting toxic chemical releases.

- Requires states, in cooperation with the United States Environmental Protection Agency (U.S. EPA) and industries, to develop emergency plans and notification procedures for responding to releases of hazardous substances.
- Requires industries to report on the presence and release of specified hazardous substances.
- Requires industries to file a material safety data sheet (MSDS) on each hazardous chemical, and also an annual inventory of amounts of chemicals made, used and stored.
- Manufacturers of extremely hazardous substances must report annually to U.S. EPA and state agencies any routine releases of these chemicals for inclusion on Form R-- the Toxic Release Inventory.

Regulations pertaining to EPCRA can be found in 40 CFR Parts 300 - 372. [Internet users: go to http://www.epa.gov/docs/epacfr40/subch-J/] Check the *Federal Register* for new rules, proposed rules and notices at http://www.access.gpo.gov/su_docs/aces/aces140.html

EPCRA

General

GENERAL

Hotlines

RCRA/UST, Superfund, and EPCRA Hotline
Tel: (800) 424-9346
Tel: (703) 412-9810 [DC area]
TDD: (800) 553-7672
TDD: (703) 412-3323 [DC area]
Hours: 9:00 a.m. to 6:00 p.m. (EST) M-F
Abstract: This hotline provides information about the regulations and programs implemented in EPCRA: emergency planning; hazardous chemical inventory reporting; public access to chemical information; toxic chemical release reporting and the Form R; the toxic release inventory (TRI) database. This hotline also provides referrals for documents related to these programs.

TRI User Support Service
Tel: (202) 260-1531
E-mail: tri.us@epamail.epa.gov
Hours: 8 a.m.-4:30 p.m., M-F
Abstract: This hotline by U.S. EPA's Office of Pollution Prevention & Toxics facilitates access to TRI data. It provides access and user support to U.S. EPA staff, other federal agencies, industry, environmental and public interest groups, libraries, the international community and citizens. Customized online searches are performed on a limited basis. Training and demonstrations of the TRI online system and the CD-ROM are available. General questions about TRI are answered and referrals to appropriate TRI resource centers are provided.

EnviroSense
Common Sense Solutions to Environmental Problems

**** Reminder **** - For the most up-to-date information, check U.S. EPA's Enviroene web site, http://es.epa.gov, or check with a local technical assistance provider (see Appendix B).

To obtain the materials listed, see page 2.

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On-line Access

EPCRA General

Chemical Emergency Preparedness & Prevention Office (CEPPO)
URL: http://www.epa.gov/swercepp/
Abstract: This site is the home page for U.S. EPA's Chemical Emergency Preparedness and Prevention Office, which provides leadership, advocacy, and assistance to prevent and prepare for chemical emergencies; respond to environmental crises; and inform the public about chemical hazards in their community.

Office of Prevention, Pesticides, and Toxic Substances (OPPTS)
URL: http://www.epa.gov/opptintr/
Abstract: This site is the home page for U.S. EPA's Office of Pollution Prevention and Toxics, which strives to protect and improve human health and the environment; achieve risk reduction, sustainability, environmental justice; enhance the quality of life; promote safer designs and wiser use of materials, products, processes, practices, technologies, and disposal methods, using pollution prevention as the principle of first choice; and provide information, education and technical assistance to empower the public to make informed decisions on the risks associated with toxic substances.

Right-to-Know Network
URL: http://www.rtk.net
Telnet: rtk.net
Modem: (202) 234-8570
Operator: (202) 234-8494
Abstract: RTK NET offers free access to TRI data, along with health facts for each TRI chemical, searchable through the World Wide Web, Telnet, and dialup. By putting TRI data together with other related databases from several Federal agencies, RTK NET promotes pollution prevention, data analyses, and communication among individuals concerned about toxics use reduction. RTK NET is operated jointly by two nonprofit organizations, Unison Institute and OMB Watch.

TOXNET (National Library of Medicine)
URL: http://hlm.nih.gov
Telnet: toxnet.nlm.nih.gov:23/
Modem: (301) 946-1184
Tel: (301) 496-6531
Abstract: The database most commonly used for retrieval of TRI information by the general public is the TRI database, operated by the National Library of Medicine (NLM) on the TOXNET system. Once in the system, the user may select to access the TRI database or one of several other information units containing data on the health and ecological effects of toxic chemicals. Chemical safety and handling descriptions are also available. To access the TOXNET TRI database, individual users must set up an account and will be charged a fee for the use of its searching capabilities.

TRI Environmental Indicators
URL: http://www.epa.gov/indicators/index.html
Abstract: This homepage provides access at one location to readily available environmental data that may be useful as environmental indicators (including TRI data) to report status and trends in environmental conditions or to assess progress in public and private environmental protection efforts at various geographic scales. The principal point of entry for obtaining data on-line within this homepage provides U.S. EPA data aggregated nationally or by state. County-level and zip-code aggregation queries can also be done.

Electronic Mailing Lists

To subscribe to a U.S. EPA electronic mailing list (listserver), send an e-mail to: listserver@unixmail.rtpnc.epa.gov with SUBSCRIBE TO LISTSERVER in the subject line and SUBSCRIBE <list name> <first name> <last name> in the message part. (Example: SUBSCRIBE EPA-TRI JOHN DOE)

EPA-TRI
Abstract: Toxic Release Inventory Federal Registers

HOTLINE_OSWER
Abstract: RCRA, Superfund, and EPCRA Monthly Report Hotline Report and Updates

OPPT-NEWSBREAK
Abstract: OPPT Library daily news services

Documents

EPCRA

General

Fact Sheet: SARA Title III: Emergency Planning and Community Right-to-Know Act.
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: January 1993
Pages: 12
Report No.: EPA/550/F-93/002
Abstract: This document explains the requirements of EPCRA.
Source: NCEPI

Federal Chemical Regulation: TSCA, EPCRA and the Pollution Prevention Act.
Author: Lewis, Cynthia A.
Publisher: Bureau of National Affairs, Washington, DC
Date: 1997
Pages: 551
LCCN: 97013480
ISBN: 1570180423 (hardcover)
Call No.: KF3958.L49 1997
Source: OCLC

Process-Based Self-Assessment Tool for the Organic Chemical Industry.
Author: U.S. EPA, Washington, DC, Office of Enforcement and Compliance Assurance
Date: December 1997
Pages: 400
Report No.: EPA/305/B-97/002
Abstract: This guide is a resource on Federal environmental regulations for small-to-medium-sized organic chemical manufacturing facilities. This manual 1) provides a general approach for performing a multimedia self-assessment to evaluate compliance with environmental regulations, and 2) provides industry-specific process and regulatory information necessary for conducting an assessment at an organic chemical manufacturing facility. The general approach section describes the steps for planning, conducting, and following up a multimedia self-assessment. Industry-specific information is given to supplement the generic self-assessment approach. This document describes processes found throughout the chemical manufacturing industry and identifies potential releases from each process and associated environmental legislation. Additional regulatory requirements (such as applicability, exemptions, monitoring, record keeping, and reporting) potentially affecting organic chemical manufacturers are summarized by statute in the appendices.
Source: NCEPI, U.S. EPA web site (http://www.epa.gov)

Section 313 Emergency Planning and Community Right-to-Know Act - Guidance for Chemical Distribution Facilities.

Author: U.S. EPA, Washington, DC, Office of Pollution Prevention
Date: July 1997
Pages: 60
NTIS No.: PB97-205033INZ
Source: NTIS

Section 313 Emergency Planning and Community Right-to-Know Act - Guidance for Solvent Recovery Facilities.

Author: U.S. EPA, Washington, DC, Office of Pollution Prevention
Date: July 1997
Pages: 70
NTIS No.: PB97-205041INZ
Source: NTIS

Training

EPCRA *General*

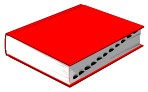
RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: EPCRA/SARA Title III (EPCRA Sections 301-330, 40 CFR Parts 350-372).

Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: June 1997
Pages: 13
Report No.: EPA/550/B-97/001
Availability: Paper copy available as an ongoing subscription. Single copies also available in paper copy or microfiche.
Abstract: This module provides a brief introduction to the history and underlying concepts of the SARA Title III program. This document describes the Chemical Emergency Preparedness Program before passage of SARA Title III and explains the different aspects of emergency planning, including prevention, preparedness and response. How SARA Title III is different from other environmental laws and regulations is also explained.
Source: NTIS

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: Oil Pollution Prevention Regulation and the Oil Pollution Act of 1990.

Author: U.S. EPA, Washington, DC, Office of Emergency and Remedial Response
Date: June 1997
Pages: 26
NTIS No.: PB97-963229
Report No.: EPA/540/R-97/017; OSWER-9205.5-09
Availability: Paper copy available as an ongoing subscription. Single copies also available in paper copy or microfiche.
Abstract: The module explains the purpose, scope, and reporting requirements under the Spill Prevention Control and Countermeasures (SPCC) and related regulations and the Oil Pollution Act of 1990. The module: identifies the major objectives of the Oil Pollution Act of 1990; identifies which facilities must prepare SPCC plans and which must prepare Facility Response Plans; explains what facilities must do to comply with the notification requirements for a discharge of a harmful quantity of oil and explains what the Oil Spill Liability Trust Fund is and how it is funded and used.
Source: NTIS

EMERGENCY PLANNING AND NOTIFICATION



Documents

Emergency Response Division File Guidance Manual.
Publisher: U.S. EPA, Office of Solid Waste and Emergency Response, Washington, DC
Date: 1993
Pages: 290
OCLC No.: 31400581
Report No.: 9360.6-11
Source: OCLC

Training

EPCRA
Planning/ Notification

RCRA/UST, Superfund, and EPCRA Hotline Training Module: Introduction to: Emergency Planning Requirements, EPCRA Sections 301-303; 40 CFR Section 355.30).
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: June 1997
Pages: 17
Report No.: EPA/550/B-97/002
Abstract: This module explains the purpose and scope of EPCRA's emergency planning requirements and the basic elements of the program. Included in this document is an explanation of state commissions, planning districts, and local committees; emergency planning notification requirements; and the development of comprehensive emergency response plans. The document also identifies the extremely hazardous substances and their threshold planning quantities.
Source: NCEPI

INSPECTION/COMPLIANCE

Documents

Analysis of Compliance with the Supplier Notification Requirements under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) Final Report.
Publisher: U.S. EPA, Office of Toxic Substances, Washington, DC
Date: February 1992
Pages: 70
OCLC No.: 26611027
Call No.: RA1193.3.A62 1992
Source: OCLC

Guidance Manual for EPA Chemical Safety Audit Team Members.
Author: Chemical Emergency Preparedness Program (U.S.); U.S. EPA, Office of Solid Waste and Emergency Response
Date: 1990
OCLC No.: 26205111
Source: OCLC

EPCRA

Inspection/ Compliance

Checklists

EPCRA Section 313 Data Quality Inspection Manual.
Publisher: U.S. EPA, Washington, DC
Date: 1992
Report No.: 68-C8-0066; 68-D0-0020
Call No.: TD1050.R46E93 1992
Source: OCLC

RELEASE REPORTING

Documents

Common Synonyms: For Chemicals Listed under Section 313 of the Emergency Planning and Community Right-to-Know Act, March 1995.
Author: U.S. EPA, Washington, DC, Office of Pollution, Prevention, and Toxics
Date: March 1995
Pages: 138
Notes: See also PB92-232164.
NTIS No.: PB95-227872
Report No.: EPA/745/R-95/008
Abstract: This glossary contains chemical names and synonyms for substances covered by the reporting requirements of section 313 of EPCRA (Title III of SARA, 40 CFR Part 372). Part I is a listing in Chemical Abstracts Service (CAS) registry number order. The CAS number is followed by the name by which the chemical is listed under section 313 and synonyms in alphabetical order. Part II of the glossary is an alphabetical list of chemical names and synonyms, with CAS numbers. In this list, section 313 names are followed by an asterisk and are footnoted as listing names.
Source: NTIS

Emergency Planning and Community Right-to-Know Section 313: List of Toxic Chemicals.
Author: U.S. EPA, Washington, DC, Office of Pollution, Prevention, and Toxics
Date: May 1995
Pages: 45
Notes: See also DE94018163.
NTIS No.: PB95-242129
Report No.: EPA/745/B-95/002
Abstract: This document provides a quick reference list of the chemicals for which reporting is required under Section 313 of EPCRA (also referred to as the Toxics Release Inventory (TRI) List).
Source: NTIS

Emergency Planning and Community Right-to-Know Act - Section 313 Release Reporting Requirements (August 1991).
Author: U.S. EPA, Washington, DC, Office of Pesticides and Toxic Substances
Pages: 30
Date: August 1991
NTIS No.: PB93-205847INZ
Report No.: EPA/560/4-92/002
Source: NTIS

EPCRA Section 313 Roadmaps Database. User's Manual. (Version 2.2).
Author: U.S. EPA, Washington, DC, Office of Pollution Prevention, and Toxics
Date: September 1991
Pages: 89
NTIS No.: PB92-169523
Report No.: EPA/DF/DK-92/040A
Abstract: U.S. EPA has developed a database of EPCRA Section 313 Toxic Release Inventory (TRI) data to assist users in performing assessments of these chemicals. The Roadmaps system displays and/or prints out information on health and environmental effects, carcinogenicity and other properties, federal regulations, and state air and water regulations and monitoring data. It also includes lists of state contacts. The document describes the program's design and provides instructions for using the system. NTIS number for the software is PB92-501972INC.
Source: NTIS

EPCRA
Release Reporting

Questions and Answers on Release Notification Requirements and Reportable Quantity Adjustments.
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Pages: 28
Date: October 1989
NTIS No.: PB93-963411INZ
Report No.: EPA/540/F-93/032; OSWER-9360.7-11
Source: NTIS

Summary of Toxic Release Inventory (TRI) Data for the Pesticide Manufacturing Industry.
Author: U.S. EPA, Washington DC, Standards and Applied Science Division
Pages: 35
Date: March 1992
NTIS No.: PB95-111191INZ
Source: NTIS

Supplier Notification Requirements under Section 313 of the Emergency Planning and Community Right-to-Know Act (1991).
Author: U.S. EPA, Washington, DC, Office of Pesticides and Toxic Substances
Date: 1991
Pages: 30
Notes: See also PB89-192892.
NTIS No.: PB93-205854
Report No.: EPA/560/4-91/006
Abstract: Section 313 of EPCRA requires that certain manufacturers report annual releases to the environment of listed toxic chemicals and chemical categories. Because these manufacturers must know the toxic chemical composition of the products they use to be able to calculate releases accurately, U.S. EPA requires some suppliers of mixtures or trade name products containing one or more of the listed section 313 toxic chemicals to notify their customers. The pamphlet explains which suppliers must notify their customers, who must be notified, what form the notice must take, and when it must be sent.
Source: NTIS

EPCRA
Release Reporting

Title III List of Lists: Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-to-Know Act (EPCRA) and Section 112(r) of the Clean Air Act, as amended: Title III of the Superfund Amendments and Reauthorization Act of 1986, and Title III of the Clean Air Act Amendments of 1990.
Author: U.S. EPA, Washington, DC, Office of Prevention, Pesticides and Toxic Substances and Office of Solid Waste and Emergency Response
Date: December 1996
Report No.: EPA/550/B-96/015
Abstract: This consolidated list has been prepared to help firms handling chemicals determine whether they need to submit reports under sections 302, 304, or 313 of SARA Title III (EPCRA) and, for a specific chemical, what reports may need to be submitted. It also helps firms determine whether they will be subject to accident prevention regulations under CAA section 112(r). Separate lists are also provided of RCRA waste streams and unlisted hazardous wastes, and of radionuclides reportable under CERCLA. These lists should be used as a reference tool, not as a definitive source of compliance information.
Source: NCEPI, OCLC

Software

EPCRA Section 313 Roadmaps Database. (Version 2.2) (for Microcomputers).
Author: U.S. EPA, Washington, DC, Office of Pollution Prevention, and Toxics
Date: September 1991
Notes: Documentation may be ordered as PB92-169523.
Format: Two 3 ½" diskettes require 512K RAM and 2.7 MB hard disk space.
NTIS No.: PB92-501972INC
Abstract: U.S. EPA has developed a database of EPCRA Section 313 Toxic Release Inventory (TRI) data to assist users in performing assessments of these chemicals. The Roadmaps system displays and/or prints out information on health and environmental effects, carcinogenicity and other properties, federal regulations, and state air and water regulations and monitoring data. It also includes lists of state contacts.
Source: NTIS

Title III (SARA and Clean Air Act Amendments) Emergency Planning and Community Right-to-Know Act and Accidental Release Prevention Consolidated Chemical List (on diskette).
Author: U.S. EPA, Washington, DC
Date: April 1995
Notes: Customers must provide their own search and retrieval software. Print software prints output from the dBase files for those who do not have dBase. No software other than DOS is required to use print program. Supersedes PB94-504107.
Format: Self-extracting compressed files in dBase III on one 3 1/2 inch disk require 6.5 MB of hard disk storage. Documentation included; may be ordered separately as PB94-213659.
NTIS No.: PB95-503165
Report No.: EPA/DF/DK-95/023
Abstract: This consolidated list has been prepared to help firms handling chemicals

determine whether they need to submit reports under sections 302, 304, or 313 of SARA Title III (EPCRA) and, for a specific chemical, what reports may need to be submitted. It will also help firms determine whether they will be subject to accident prevention regulations under CAA section 112(r). Separate lists are also provided of RCRA waste streams and unlisted hazardous wastes, and of radionuclides reportable under CERCLA. These lists should be used as a reference tool, not as a definitive source of compliance information. This revision reflects regulatory changes through December 1994. The chemicals are ordered by Chemical Abstract Service (CAS) registry number. Categories of chemicals which do not have CAS registry numbers but are cited under CERCLA, EPCRA section 313, and CAA, are placed at the end of the list. The chemicals' synonyms are ordered alphabetically by CAS number. However, the chemicals listed have many more synonyms than appear on this list. The list includes chemicals referenced under five federal statutory provisions.
Source: NTIS

Toxic Release Inventory (TRI), 1987-1994.
Author: U.S. EPA, Washington, DC, Office of Pollution Prevention, and Toxics
Date: September 1996
Notes: The datafile is on two CD-ROM. Contains search and retrieval software. Requires 640K RAM, 1.5 MB hard disk space, MS-DOS or PC-DOS version 3.3 or higher, CD-ROM drive, and a printer. Includes user instructions. Supersedes PB94-504230, PB94-505434, and PB95-503793. See also PB95-503876 (magnetic tape).
NTIS No.: PB96-503214
Abstract: Information in the TRI includes the name, location and type of business; off-site locations to which the facility transfers toxic chemicals in waste; whether the chemical is manufactured (including importation), processed, or otherwise used and the general categories of use of the chemical; an estimate (in ranges) of the maximum amounts of the toxic chemical present at the facility at any time during the preceding year; quantity of the chemical entering each medium annually; waste treatment/disposal methods and efficiency of methods for each waste stream; optional information on waste minimization; and a certification by a senior facility official that the report is complete and accurate. Data can be exported into five popular formats.
Source: NTIS

Toxic Substances Control Act (TSCA): Searchable Database on CD-ROM, January 1997. TSCA Chemical Substances Inventory: Revised Inventory Synonym and Preferred Name File and SARA Title III (on CD-ROM).
Author: U.S. EPA, Washington, DC, Office of Pollution, Prevention, and Toxics
Date: January 1997
Notes: Windows version requires 386 or greater processor with 4 MB RAM and Windows 3.1 or greater. Mac version requires 68020 processor or greater with 2 MB RAM and System 7.0 or greater. 'Adobe Acrobat Reader with Search for CD' software is provided. Supersedes PB96-502596, PB96-501267, and PB96-501259.
NTIS No.: PB97-501423 (CD-ROM)
PB97-501431 (3 1/2" disk-ASCII)
PB97-501456 (magnetic tape-datafile)
Abstract: The TSCA CD-ROM assists in identifying chemical substances and cross-referencing to their regulatory names to help companies comply with Community Right To Know requirements, SARA reporting and OSHA. Two other files are provided: the 'Premanufacturer Notification (PMN) No. to U.S. EPA Accession No. Link' file as well as SARA Title III Consolidated Chemical List data. The 'Title III EPCRA and Accidental Release Prevention Consolidated Chemical List' has been prepared to help firms handling chemicals determine whether they need to submit reports under sections 302, 304, or 313 of SARA Title III (EPCRA) and, for a specific chemical, what reports may need to be submitted. It also helps firms determine whether they will be subject to accident prevention regulations under CAA section 112(r). Separate lists are also provided of RCRA waste streams and unlisted hazardous wastes, and of radionuclides reportable under CERCLA. These lists should be used as a reference tool, not as a definitive source of compliance information. The CD-ROM provides an easy, electronic lookup to identify chemical substances and also assists in identifying chemical substances and cross-referencing to their regulatory names. It has an intuitive interface for search, display and output using Adobe Acrobat CD search software.
Source: NTIS

Training

RCRA/UST, Superfund, And EPCRA Hotline Training Module: Introduction To: Accidental Release Prevention Program (Clean Air Act Section 112(r); 40 CFR Part 68).

Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: June 1997
Pages: 19
Report No.: EPA/550/B-97/005
Abstract: This module discusses CAA ?112(r) and its implementing regulations at 40 CFR 68 in detail. The document explains the purpose of the regulation and how it relates to the goals and requirements of EPCRA.
Source: NCEPI

EPCRA Release Reporting

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: CERCLA and EPCRA Release Reporting Requirements (CERCLA Section 103 and EPCRA Section 304).

Author: U.S. EPA, Washington, DC, Office of Emergency and Remedial Response
Date: June 1997
Pages: 32
Availability: Paper copy available as an ongoing subscription. Single copies also available in paper copy or microfiche.
NTIS No.: PB97-963238
Report No.: EPA/540/R-97/026; OSWER-9205.5-18
Abstract: The module explains the notification requirements triggered by releases of CERCLA hazardous substances and EPCRA-designated extremely hazardous substances (EHSs). The module provides the statutory basis and purpose for reporting CERCLA hazardous substance and EHS releases; cites applicable definitions and lists the exclusions appropriate to each definition; determines whether an RQ has been exceeded for multiple releases, mixtures, and RCRA hazardous wastes; provides the *Federal Register* citation and explains the methodology for adjusting RQs; cites the reduced reporting requirements for continuous releases; and explains the differences between continuous release reporting under CERCLA and EPCRA.
Source: NTIS

RCRA/UST, Superfund, And EPCRA Hotline Training Module: Introduction To: Hazardous Chemical Inventory Reporting (EPCRA Sections 311-312; 40 CFR Part 370).

Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: June 1997
Pages: 21
Report No.: EPA/550/B-97/003
Abstract: This module focuses on the hazardous chemical inventory reporting sections, EPCRA ?? 311 and 312, which require facilities to submit detailed information on the chemicals present on site that require Material Safety Data Sheets (MSDSs). The document explains the general purpose and scope of EPCRA ?? 311 and 312, identifies which facilities and chemicals are subject to reporting, explains what facilities must do to comply with the sections, and list the five hazard categories used to group hazardous chemicals. The module identifies the options facilities have when reporting under ?? 311 and 312, explains the two ways facilities can report mixtures, defines the de minimis cut-off level and how it applies to mixtures, and explains how citizens can access the information reported.
Source: NCEPI

RCRA/UST, Superfund, And EPCRA Hotline Training Module: Introduction To: SARA Subtitle C (EPCRA Sections 321-330).

Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: June 1997
Pages: 21
Report No.: EPA/550/B-97/004
Abstract: This module covers SARA Subtitle C, which contains provisions that support the reporting requirements and notification procedures contained in Subtitles A and B. These provisions include a trade secrecy mechanism, a comprehensive enforcement policy, and an avenue for public access to the collected information. This document explains the trade secrecy claim process, EPCRA enforcement policies and procedures, and other general provisions discussed in SARA Subtitle C.
Source: NCEPI

RESOURCE CONSERVATION AND RECOVERY ACT, SUPERFUND, AND UNDERGROUND STORAGE TANKS SOURCES

Brief History of the Resource Conservation and Recovery Act

1976 - Congress passed the Resource Conservation and Recovery Act (RCRA) as an amendment to the Solid Waste Disposal Act to protect water, land and air from contamination from solid wastes. RCRA provides for the safe generation, transportation, treatment and disposal of hazardous wastes from cradle to grave.

1984 - Hazardous and Solid Waste Amendments of 1984

- Banned land disposal of untreated hazardous waste after May 1990.
- Prohibited or phased out incineration of toxic materials in industrial and apartment furnaces.
- Required groundwater monitoring at land disposal facilities.
- Authorized a new corrective action program to require generators and TSDs to perform cleanups of hazardous waste releases at permitted facilities.
- Instituted underground storage tank (UST) program requiring national standards for the installation and operation of new USTs (containing petroleum and hazardous substances) and the upgrading and operation of existing USTs.

Regulations pertaining to RCRA can be found in 40 CFR Parts 260-299, available on-line at http://www.epa.gov/docs/epacfr40/subch-I/. Check the *Federal Register* for new rules, proposed rules and notices at http://www.access.gpo.gov/su_docs/aces/aces140.html

GENERAL

RCRA
General

Hotlines

Hazardous Waste Ombudsman Program
Tel: (800) 262-7937
Tel: (202) 260-9361
Fax: (202) 260-8929
Hours: 8:00 a.m. to 5:30 p.m. (EST), M-F
Abstract: This program is sponsored by the U.S. EPA. The Ombudsman assists the public and regulated community in resolving problems concerning any requirement under the hazardous waste programs managed by OSWER. The Ombudsman Program handles complaints from citizens and the regulated community, obtains facts, sorts information, substantiates policy, and engages in dispute resolution, shuttle diplomacy functions, and formal investigations.

RCRA/UST, Superfund, and EPCRA Hotline
Tel: (800) 424-9346
Tel: (703) 412-9810 [DC area]
TDD: (800) 553-7672
TDD: (703) 412-3323 [DC area]
Hours: 9:00 a.m. to 6:00 p.m. (EST), M-F
Abstract: U.S. EPA's RCRA, Superfund & EPCRA Hotline provides up-to-date information on regulations developed under RCRA (including the UST program), CERCLA (Superfund), EPCRA, and the Oil Pollution Act (OPA). The Hotline can also assist Section 112(r) of the Clean Air Act and Spill Prevention, Control & Countermeasures (SPCC) regulations. The Hotline also responds to requests for relevant documents.

EnviroSense
Common Sense Solutions to Environmental Problems

**** Reminder **** - For the most up-to-date information, check U.S. EPA's Enviroene web site, http://es.epa.gov, or check with a local technical assistance provider (see Appendix B).

To obtain the materials listed, see page 2.

RCRA/SUPERFUND/UST TOC

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RCRA Information Center
Tel: (703) 603-9230
Fax: (703) 603-9234
Hours: 9:00 a.m. to 4:00 p.m. (EST), M-F

Abstract: The RCRA Information Center (RIC) was formed to house both documents used in writing these regulations as well as U.S. EPA publications produced for public guidance on solid waste issues.

On-line Access

U.S. EPA Office of Emergency and Remedial Response (OERR)
URL: http://www.epa.gov/superfund/oerr/oerrmain/oerr.htm
Abstract: The U.S. EPA OERR web site has pages devoted to Superfund and oil spill prevention.

U.S. EPA Office of Solid Waste and Emergency Response (OSWER)
URL: http://www.epa.gov/epaoswer/
Abstract: The U.S. EPA OSWER web site has pages devoted to hazardous and non-hazardous wastes, underground storage tanks, and brownfields.

RCRA
General

***Federal Register* notices**
URL: http://www.epa.gov/EPA-WASTE
Abstract: This site has *Federal Register* notices, by date, pertaining to RCRA/CERCLA.

Hazardous Waste Clean-up Information (CLU-IN)
URL: http://www.clu-in.com
Telnet: clu-in.epa.gov
Modem: (301) 589-8366
Help: (301) 589-8368
Abstract: CLU-IN is intended as a forum for all stakeholders in waste remediation and contains information on policies, programs, organizations, publications and databases useful to waste remediation professionals. The site contains technology descriptions and reports as well as current news on business aspects of waste site remediation. It includes links to other sites important to managers interested in site characterization and soil and groundwater remediation technologies. CLU-IN is provided by the U.S. EPA Technology Innovation Office.

Electronic Mailing Lists

To subscribe to a U.S. EPA electronic mailing list (listserver), send an e-mail to: listserver@unixmail.rtpnc.epa.gov with SUBSCRIBE TO LISTSERVER in the subject line and SUBSCRIBE <list name> <first name> <last name> in the message part. (Example: SUBSCRIBE EPA-TRI JOHN DOE)

EPA-WASTE
Abstract: All hazardous waste, solid waste, and CERCLA Federal Registers.

HOTLINE_OSWER
Abstract: Hotline Updates and Monthly Hotline Reports. Subscribers to HOTLINE_OSWER receive as part of their first message the Hotline's Guide to EPA Electronic Resources and instructions for how to have selected hotline documents faxed.

Documents

Catalog of Hazardous and Solid Waste Publications: Ninth Edition.
Author: U.S. EPA, Office of Solid Waste and Emergency Response
Date: 1996
Pages: 347
Report No.: EPA/530/B-96/007
OCLC No.: 36076274
Abstract: The catalog contains a selective list of hazardous and solid waste documents released by the U.S. EPA's Office of Solid Waste.
Source: OCLC

Complete Guide to the Hazardous Waste Regulations: A Comprehensive, Step-by-Step Guide to the Regulation of Hazardous Wastes under RCRA, TSCA, HMTA, OSHA, and Superfund.
Author: Wagner, Travis.
Publisher: Van Nostrand Reinhold, New York
Date: 1994
Pages: 488
Notes: Revised edition of The Complete Handbook of Hazardous Waste Regulation. c1988. Includes index.
OCLC No.: 32901335
Call No.: KF3946.W34-1994
LCCN: 90012356
ISBN: 0442003552 0442019319
Source: OCLC

Compliance Assistance Tool for RCRA Subpart CC: 40 CFR Parts 264 and 265.
Author: Chemical Manufacturers Association
Date: 1996
Pages: 150
Report No.: 601003C
Abstract: RCRA Subpart CC requirements apply to most tanks, containers, surface impoundments and miscellaneous Subpart X units. This document covers all aspects of Subpart CC as it pertains to the chemical industry, and it was written by industry experts. Tables are used to more clearly explain the requirements.
Source: Contact CMA at (301) 617-7824

Hazardous Waste Guide for Generators, Transporters and TSD's RCRA, Resource Conservation and Recovery Act.
Author: J.J. Keller & Associates, Neenah, WI.
Date: 1992
Pages: Various
Notes: Loose-leaf for updating. Includes index to regulations.
OCLC No.: 27027690
Abstract: Contains sections on regulations & references. Regulations section covers on hazardous waste regulations under RCRA, 40 CFR Pt. 260-268. References section covers proposed hazardous waste regulations & also federal & state hazardous waste agency information.
Source: OCLC

Hazardous Waste Management.
Author: U.S. EPA, Washington, DC, Office of International Activities
Date: September 1991
Pages: 20
NTIS No.: PB93-116135
Report No.: EPA/600/M-91/031
Abstract: The report discusses hazardous wastes, their effects on human health and the environment, sampling and analysis methods, and current treatment and disposal technologies. Brochures and associated support material are available on many topics.
Source: NTIS

Process-Based Self-Assessment Tool for the Organic Chemical Industry.
Author: U.S. EPA, Washington, DC, Office of Enforcement and Compliance Assurance
Date: December 1997
Pages: 400
Report No.: EPA/305/B-97/002
Abstract: This guide is a resource on Federal environmental regulations for small-to-medium-sized organic chemical manufacturing facilities. This manual 1) provides a general approach for performing a multimedia self-assessment to evaluate compliance with environmental regulations, and 2) provides industry-specific process and regulatory information necessary for conducting an assessment at an organic chemical manufacturing facility. The general approach section describes the steps for planning, conducting, and following up a multimedia self-assessment. Industry-specific information is given to supplement the generic self-assessment approach. This document describes processes found throughout the chemical manufacturing industry and identifies potential releases from each process and associated environmental legislation. Additional regulatory requirements (such as applicability, exemptions, monitoring, record keeping, and reporting) potentially affecting organic chemical manufacturers are summarized by statute in the appendices.
Source: NCEPI, U.S. EPA web site (http://www.epa.gov)

Supplemental Five-Year Review Guidance.
Author: U.S. EPA, Washington, DC, Office of Emergency and Remedial Response
Date: 1994
Pages: 30
NTIS No.: PB94-963283
Report No.: EPA/540/F-94/044; OSWER-9355.7-02A
Abstract: This memorandum amends OSWER Directive 9355.7-02 (May 23, 1991) (PB91-921369), Structure and Components of Five-Year Reviews, by providing supplemental guidance on five-year reviews. The supplemental guidance provides necessary clarifications as well as new direction to streamline the five-year review process and ensure the effective and efficient use of program resources. Specifically, this supplemental guidance changes the trigger date for policy reviews to construction completion; provides a prioritization plan for conducting five-year reviews when Regions cannot conduct all required reviews; clarifies responsibility for conduct of five-year reviews at Federal facilities; restates that the five-year review covers all operable units (OUs) at a site; and, introduces a streamlined Type Ia review at sites where construction is ongoing, and provides model language.
Source: NTIS

RCRA General

Software

Automated Waste Classification Software (WasteCat) (for Microcomputers).
Author: California EPA, Sacramento, Office of Scientific Affairs
Date: 1995
Format: Two 3 1/2” diskettes, 1.4M high density
Notes: Files are compressed. Requires 4 MB of RAM and 4 MB hard disk space, MS Windows 3.1 or higher on a 386 or higher PC.
NTIS No.: PB95-504205
Abstract: This user-friendly computer automated system helps generators, the regulated community, and the various regulatory agencies accurately determine the proper classification of potentially hazardous waste which may be subject to regulation under California and federal law. WasteCat is a Windows-driven program which asks the user a series of directed questions relative to the waste. After answering all of the questions, WasteCat presents the user with a printout describing the hazardous characteristics of the waste along with a classification determination for the waste in question.
Source: NTIS

Resource Conservation and Recovery Information System (RCRIS) Extract File (on CD-ROM).

Author: U.S. EPA, Washington, DC, Office of Solid Waste
Date: 1997
NTIS No.: PB97-592570 (CD-ROM)
PB97-592571 (single issues)
Notes: Available as an ongoing subscription. Also available in 9-track tape.
Abstract: RCRIS contains information on hazardous waste handlers regulated by the U.S. EPA under RCRA, supplied by the regulated community and RCRA permitting and compliance program personnel. The notification form (EPA Form 8700-12), submitted by all hazardous waste handlers, provides basic identification information, specific hazardous waste activities, and wastes handled. Treatment, storage and disposal facilities (TSDFs) are further required to submit Part A (EPA Form 8700-23) and Part B of their Hazardous Waste Permit Application. The Part A form provides more detailed information concerning wastes handled, plus SIC codes and process data. Information from the Notification and Part A forms described above, permit issuance data supplied by RCRA permit writers, and non-sensitive compliance and enforcement data collected by compliance program personnel are included on the tapes.
Source: NTIS

Training

RCRA Orientation Manual.

Author: U.S. EPA, Office of Solid Waste
Date: 1990
Pages: 212
Report No.: EPA/530/SW-90/036
NTIS No.: PB91-145888
Source: NTIS

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: Air Emission Standards (40 CFR Parts 264/265, Subparts AA, BB, and CC).

Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 24
Notes: Supersedes PB96-780358. See also PB96-207030.
NTIS No.: PB96-207022
Report No.: EPA/530/R-96/021
Abstract: The module provides a regulatory overview of the RCRA air emission standards as they apply to hazardous waste facilities. It outlines the history of RCRA air emission standards as well as the air emission controls required by the standards. It explains the difference in the parts 264/265 and subparts AA, BB and CC, air emission standards. It summarizes the requirements of each of these subparts and identifies the types of units subject to these requirements as well as specific exemptions.
Source: NTIS

RCRA
General

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: Boilers and Industrial Furnaces (40 CFR Part 266, Subpart H).

Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 24
Notes: Supersedes PB96-780291. See also PB96-207048.
NTIS No.: PB96-207030
Report No.: EPA/530/R-96/022
Abstract: The module summarizes the regulations affecting hazardous waste processes in boilers and industrial furnaces (BIFs). It defines boilers and industrial furnaces and describes the criteria associated with the definitions. It describes the requirements for processing hazardous waste in BIFs, including the distinctions between permitted and interim status units. It explains the requirements for the specially regulated BIFs and gives examples of each.
Source: NTIS

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: Closure/Post-Closure (40 CFR Parts 264/265, Subpart G).

Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 18
Notes: Supersedes PB96-780325. See also PB96-207055.
NTIS No.: PB96-207048
Report No.: EPA/530/R-96/023
Abstract: The module explains the difference between closure and post-closure. It lists the types of facilities that are subject to closure/post-closures and defines the difference between partial and final closure. It specifies who submits a closure plan and when a closure plan must be submitted, lists the steps in the process, and states the time frame for submittal. It identifies when and how a closure must be amended. It explains the time frame for notification of closure and the deadlines for beginning and completing closure. It specifies which facilities need contingent post-closure plans and lists and the elements of post-closure and cites the requirements. It specifies the conditions and timing for amending a post-closure plan and states who must certify closure/post-closure.
Source: NTIS

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: Hazardous Waste Identification (40 CFR Part 261).

Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 33
Notes: Supersedes PB96-780143. See also PB96-207139.
NTIS No.: PB96-207121
Report No.: EPA/530/R-96/031
Abstract: The module introduces a specific hazardous waste identification process, which involves asking and analyzing a series of questions about any waste being evaluated. It analyzes in detail the Resource Conservation and Recovery Act (RCRA) definition of 'hazardous waste.' It explains concepts that are essential to identifying a RCRA hazardous waste: hazardous waste listing, hazardous waste characteristics, the 'mixture' and 'derived-from' rules, the 'contained-in' policy, and the hazardous waste identification rules (HWIR).
Source: NTIS

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: Oil Pollution Prevention Regulation and the Oil Pollution Act of 1990.

Author: U.S. EPA, Washington, DC, Office of Emergency and Remedial Response
Date: 1997
Pages: 26
Notes: Paper copy available as an ongoing subscription. Single copies also available in paper copy or microfiche.
NTIS No.: PB97-963229
Report No.: EPA/540/R-97/017; OSWER-9205.5-09
Abstract: This module explains the purpose, scope, and reporting requirements under the Spill Prevention Control and Countermeasures (SPCC) and related regulations and the Oil Pollution Act of 1990. The module identifies the major objectives of the Oil Pollution Act of 1990; identifies which facilities must prepare SPCC plans and which must prepare Facility Response Plans; explains what facilities must do to comply with the notification requirements for a discharge of a harmful quantity of oil; and explains what the Oil Spill Liability Trust Fund is and how it is funded and used.
Source: NTIS

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: Other Laws That Interface with RCRA.

Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 29
Notes: Supersedes PB96-780432. See also PB96-207196.
NTIS No.: PB96-207188
Report No.: EPA/530/R-96/037
Abstract: The module provides a brief overview of some of the major environmental laws that interface with RCRA: CAA; CWA; SDWA; FIFRA; TSCA; Pollution Prevention Act (PPA); and CERCLA (or Superfund). It also covers regulations administered by other agencies that interface with RCRA, such as health and safety requirements under the Occupational Health and Safety Administration, and the hazardous materials transportation requirements administered by the Department of Transportation.
Source: NTIS

RCRA/UST, Superfund, and EPCRA Hotline Training Module. Introduction to: Petitions, Delistings, and Variances (40 CFR Part 260, Subpart C).
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: November 1995
Pages: 17
Notes: See also PB96-780416 and PB96-780432.
NTIS No.: PB96-780424
Report No.: EPA/530/R-95/074
Abstract: The module reviews the regulations governing rulemaking petitions, specifies who may petition U.S. EPA to modify or revoke any provision in 40 CFR Parts 260 through 265 and 268, and what may be changed through the petition process. It lists the different components of a petition, and the steps in the petitioning, review, and decision process. It also specifies the applicability of equivalent methods and states the information needed for this type of petition. It describes the process in petitioning for a new or equivalent method. It specifies the purpose of delisting, what can be delisted, and the implications of a delisting petition. It outlines the delisting procedures and provides citations for them. It cites the Federal Registers that describe the U.S. EPA's composite model for landfills (EPACML) which U.S. EPA currently uses as a tool in evaluating delisting petitions and identifies the types of variances granted.
Source: NTIS

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: RCRA Corrective Action.
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 20
Notes: Supersedes PB96-780341. See also PB96-207212.
NTIS No.: PB96-207204
Report No.: EPA/530/R-96/039
Abstract: The module discusses the regulatory and statutory requirements and authorities governing the RCRA corrective action process. The U.S. EPA has issued a proposed rule (55 FR 30798; July 27, 1990) that would establish a comprehensive regulatory framework for implementing the corrective action program. This proposed rule and other guidance developed pursuant to statutory authorities are used to structure corrective action requirements in facility permits and orders. This module describes the current statutory and regulatory structure and discusses the future of the proposed rule.
Source: NTIS

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: RCRA Statutory Overview.
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 35
Notes: Supersedes PB96-780408. See also PB96-207238.
NTIS No.: PB96-207220
Report No.: EPA/530/R-96/041
Abstract: The module presents a brief overview of the Resource Conservation and Recovery Act (RCRA). It explains the relationship between RCRA statutory language and codified regulatory language. It describes the major components of each subtitle of RCRA and identifies the major provisions established by the Hazardous and Solid Waste Amendments (HSWA).
Source: NTIS

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: Solid and Hazardous Waste Exclusions (40 CFR Section 261.4).
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 25
Notes: Supersedes PB96-780150. See also PB96-207246.
NTIS No.: PB96-207238
Report No.: EPA/530/R-96/042
Abstract: The Resources Conservation and Recovery Act's (RCRA) Subtitle C hazardous waste management program is a comprehensive and carefully constructed system to ensure wastes are managed safely and lawfully. This program begins with a very specific, formal process to categorize wastes accurately and appropriately called waste identification. The module explains each waste exclusion and its scope, so you can apply this knowledge in determining whether a

given waste is or is not regulated under RCRA Subtitle C.
Source: NTIS

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: RCRA Solid Waste Programs.
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: 1996
Pages: 20
NTIS No.: PB96-207 246
Report No.: EPA/530/R-96/043
Abstract: This module focuses on U.S. EPA's efforts in two areas: municipal and industrial solid waste. RCRA ? 4001 encourages environmentally sound solid waste management practices that maximize the reuse of recoverable material and foster resource recovery. 40 CFR 258 set forth U.S. EPA requirements for landfill design and operation. Topics covered in this document are MSW and industrial solid waste management techniques such as source reduction, recycling, combustion, and landfilling.
Source: NTIS

Training Module for RCRA Subpart CC: 40 CFR Parts 264 and 265.
Author: Chemical Manufacturers Association
Date: 1996
Pages: 99
Report No.: 601004C
Abstract: This easy to use, easy to customize PowerPoint presentation with instructor's notes allows for quick and easy training on the RCRA Subpart CC requirements. These slides are extremely useful in training management about the resources that may be needed, as well as staff about the steps they will have to take to comply with the Subpart CC rule. Available in hard copy and disk.
Source: CMA [(301) 617-7824]

CLEAN-UP

On-line Access

Alternative Treatment Technologies Information Center (ATTIC)
URL: http://www.epa.gov/bbsnrmrl/ attic/atticn.html
Modem: (513) 569-7610
FTP/Telnet: cinbbs.cin.epa.gov
Help: (513) 569-7272
Abstract: ATTIC is a comprehensive computer database system providing up-to-date information on innovative treatment technologies. It provides access to several independent databases as well as a mechanism for retrieving full-text documents of key literature. The system provides information to make effective decisions on hazardous waste clean-up alternatives.

Federal Remediation Technologies Roundtable
URL http://www.frtr.gov
Abstract: The Federal Remediation Technologies Roundtable, operated by the U.S. EPA, is a forum for joint activity regarding the development and demonstration of innovative technologies for hazardous waste site remediation.

RCRA
Clean-up

Groundwater Remediation Technology Center
URL: http://www.gwrtac.org
Abstract: The Groundwater Remediation Technologies Analysis Center (GWRTAC) compiles, analyzes, and disseminates information on innovative groundwater remediation technologies. GWRTAC prepares reports by technical teams selectively chosen from National Environmental Technology Applications Center (NETAC), the University of Pittsburgh, and other supporting institutions. The Center maintains an active outreach program, and its activities are guided by an external Guidance committee composed of representatives from interested public- and private-sector organizations.

Remediation Technologies Development Forum
URL: http://www.rtdf.org
Abstract: The purpose of the RTDF, a public-private partnership operated by the U.S. EPA, is to identify what government and industry can do together to develop and improve the environmental technologies needed to address their mutual cleanup problems in the safest, most cost-effective manner. The RTDF fosters public and private sector partnerships to undertake the research, development, demonstration, and evaluation efforts needed to achieve common cleanup goals.

Soil and Groundwater Cleanup Online Magazine
URL: http://www.sgcleanup.com
Abstract: This site has articles on new products, techniques, innovations and regulation relating to soil and groundwater clean-up.

TechDirect Message Archive
URL: http://www.clu-in.com/techdrct.htm
Abstract: This site contains the archived messages that describe publications and events related to technologies and markets for soil and groundwater remediation. (See Electronic Mailing Lists section.)

Electronic Mailing Lists

To subscribe to a U.S. EPA electronic mailing list (listserver), send an e-mail to: listserver@unixmail.rtpnc.epa.gov with SUBSCRIBE TO LISTSERVER in the subject line and SUBSCRIBE <list name> <first name> <last name> in the message part. (Example: SUBSCRIBE EPA-TRI JOHN DOE)

BROWNFIELDS
Abstract: This U.S. EPA listserver conveys key information, events and activities on the U.S. EPA Brownfields Initiative.

Phytoremediation Mailing List
Info: Subscribe phytorem <your e-mail address> to majordomo@engg.ksu.edu
Abstract: This listserver keeps subscribers informed in the phytoremediation field.

TechDirect
Abstract: TechDirect is a free service by the U.S. EPA Technology Innovation Office that highlights new publications and events of interest to site remediation and site assessment professionals. Approximately once a month, a message is sent describing the availability of publications and events and mentioning places to obtain further information.

RCRA

Clean-up

Documents

Contaminants and Remedial Options at Solvent-Contaminated Sites.
Author: EPA, Cincinnati, OH. Risk Reduction Engineering Lab
Date: 1994
Pages: 187
Notes: Reports for Sep. 91 - Oct. 93
NTIS No.: PB95-177200
Report No.: EPA/600/R-94/203
Abstract: The document provides federal, state, and local Remedial Project Managers (RPMs), On-Scene Coordinators (OSCs), private cleanup companies, and support contractors with data concerning solvent contaminants. Sources and types of solvent contaminants, their characteristics, and their behavior in the environment will be named, and remedial options, i.e., principal proven and innovative technologies selected for solvent sites will be described. It is designed for use with other remedial guidance documents issued for RCRA, CERCLA, and/or state cleanups to accelerate solvent site cleanup. The text emphasizes source identifications: primary, such as a surface spill, and secondary, such as a subsurface migration from the primary source. The approach allows the remedial manager to target remediation in terms of contaminated zones.
Source: NTIS

Coordination between RCRA Corrective Action and Closure and CERCLA Site Activities.
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: 1996
Pages: 21
Notes: Portions of this document are not fully legible.
NTIS No.: PB97-142038
Abstract: In this memo, we discuss three areas: acceptance of decisions made by other remedial programs; deferral of activities and coordination among U.S. EPA RCRA, U.S. EPA CERCLA and state/tribal cleanup programs; and coordination of the specific standards and administrative requirements for closure of RCRA regulated units with other cleanup activities. We also announce a revision to the Agency's policy on the use of fate and transport calculations to meet the 'clean closure' performance standard under RCRA.
Source: NTIS

U.S. EPA Superfund Enforcement.

Author: U.S. EPA, Washington, DC, Office of Emergency and Remedial Response
Date: 1997
Pages: Open Series
Notes: Paper copy available as an ongoing subscription, credit card payment accepted or NTIS deposit account required. Single copies also available in paper copy or microfiche.
NTIS No.: PB97-963600
Abstract: This subscription provides the full reports issued by the Superfund program on enforcement. Topics include CERCLA and RCRA program management and implementation; comprehensive site planning; PRP search, notification, and information; and litigation support. Also included are inspection and information gathering; treatment, storage, and disposal; and waste management and enforcement.
Source: NTIS

Ground-Water Treatment Technology Resource Guide.

Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: 1994
Pages: 43
NTIS No.: PB95-138657
Report No.: EPA/542/B-94/009
Abstract: This guide supports decision-making by Regional and State Corrective Action permit writers, Remedial Project Managers (RPMs), On-Scene Coordinators, contractors, and others responsible for the evaluation of technologies. This guide directs managers of sites being cleaned up under the RCRA, UST, and CERCLA waste programs to groundwater treatment technology resource documents, databases, hotlines, and dockets and identifies regulatory mechanisms (e.g., Research Development and Demonstration Permits) that have the potential to ease the implementation of ground-water treatment at hazardous waste sites. This guide provides abstracts of representative examples of over 50 ground-water treatment technology guidance/workshop reports, overview documents, studies and demonstrations, and other resource guides. The Ground-Water Treatment Technology Resource Matrix, which accompanies this Guide, identifies the in situ treatment technology and contaminants covered in each abstracted document.
Source: NTIS

Road Map to Understanding Innovative Technology Options for Brownfields Investigation and Cleanup.

Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: 1997
OCLC No.: 37557795
Report No.: EPA/542/B-97/002
Source: OCLC

Use of Natural Attenuation at Superfund, RCRA Corrective Action, and Underground Storage Tank Sites.

RCRA Clean-up

Publisher: U.S. EPA Office of Solid Waste and Emergency Response
Date: December 1997
Pages: 34
Report No.: OSWER 9200.4-17
Abstract: This directive clarifies U.S. EPA's policy regarding the use of monitored natural attenuation for the remediation of contaminated soil and groundwater at sites regulated under all programs administered by U.S. EPA's OSWER, including Superfund, RCRA Corrective Action, and USTs.
Download: http://www.epa.gov/swerust1/directive/d9200417.pdf (PDF format)
Download: http://www.epa.gov/swerust1/directive/9200417z.htm (preformatted text)
Download: http://www.epa.gov/swerust1/directive/9200_417.htm (with hyperlinks)
Download: http://www.epa.gov/swerust1/directive/d9200417.wpd (WordPerfect 6.1)

GENERATORS

Documents

Generation and Management of CESQG Waste.
Author: U.S. EPA, Washington, DC, Office of Solid Waste
Date: 1994
Pages: 54
NTIS No.: PB95-208898
Report No.: EPA/530/R-95/017
Abstract: The report summarizes existing data on the waste generation and management practices of Conditionally-Exempt Small Quantity Generators (CESQGs). It includes data on the number of CESQGs and the CESQG waste volume. Discussion comprises major CESQG waste generating industries, major CESQG waste types, and CESQG waste management practices. Appendix A contains detailed information on the sources of information. Appendix B lists the requirements for CESQGs in all 50 states and the District of Columbia. Appendix C lists available federal and state documents that encourage pollution prevention and proper waste management by CESQGs in some CESQG waste generating industries.
Source: NTIS

RCRA
Generators

Preliminary National Biennial RCRA Hazardous Waste Report (Based on 1995 Data): List of Large Quantity Generators in the United States.
Author: U.S. EPA, Washington, DC Office of Solid Waste
Date: 1997
NTIS No.: PB97-152425
Report No.: EPA/530/R-97/008A
Abstract: The report lists large quantity generators of RCRA Hazardous Waste, as identified by U.S. EPA's 1995 Biennial Report. It provides information on the quantities, nature, and disposition of generated hazardous waste and the efforts to reduce the volume and toxicity of hazardous waste compared with previous years. Generator lists are arranged by state, and each state list is grouped by tons of RCRA waste generated. A list of state contacts is included.
Source: NTIS

Understanding the Hazardous Waste Rules: A Handbook for Small Businesses: 1996 update.
Report No.: EPA/530/K-95/001
Source: NCEPI

Waste Analysis at Facilities that Generate, Treat, Store, and Dispose of Hazardous Wastes - A Guidance Manual.
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: 1994
OCLC No.: 30709065
Stock No: PB94-963603
Report No.: EPA/530/R-94/024
Abstract: Updates Agency's 1984 manual and incorporates many changes to hazardous waste regulations including the land disposal restrictions. Assists facility owners, operators and other facility personnel in preparing waste analysis plans.
Source: OCLC, NEIS

Software

Biennial Reporting System (BRS) Data: Generation and Management of Hazardous Waste, 1995 (on CD-ROM).
Author: U.S. EPA, Washington, DC, Office of Solid Waste
Date: 1995
Notes: This product contains text only, in PDF format, with Adobe Acrobat Reader included (without search and retrieval). Includes Instruction Manual, the 1995 Hazardous Waste Report Instructions and Forms, and the Flat File Index.

NTIS No.: PB97-501993
Abstract: The product contains data describing the RCRA wastes generated and/or managed during 1995 by RCRA TSDFs and LQGs compiled by the Biennial Reporting System (BRS) for the 'National Biennial RCRA Hazardous Waste Report (Based on 1995 data)'. The data were collected by states using the '1995 National Hazardous Waste Report Instructions and Forms' (EPA Form 8700-13-A/B), or the state's equivalent information source. Data submitted by states prior to December 31, 1996 are included. Data for reports protected by RCRA Confidential Business Information (CBI) claims are not included. These data are preliminary and will be replaced by the final data. Sites are identified by their U.S. EPA/RCRA identification number.
Source: NTIS

Training

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: Containers (40 CFR Parts 264/265, Subpart I; Section 261.7).
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 17
Notes: Supersedes PB96-780226. See also PB96-207063. Also available in kit of 30 components PC E99/MF E99, PB96-207014.
NTIS No.: PB96-207055
Report No.: EPA/530/R-96/024
Abstract: The module reviews two sets of regulatory requirements for containers: requirements that pertain to the management of hazardous waste containers and regulations governing residues of hazardous waste in empty containers. It defines 'container' and 'empty container' and provides examples and citations for each. It provides an overview of the requirements for the design and operation of hazardous waste containers. It explains the difference between the container standards set out in part 264 and part 265. It states the requirements for rendering a hazardous waste container 'RCRA empty'. It explains when container rinsate must be managed as a hazardous waste.
Source: NTIS

RCRA/UST, Superfund, and EPCRA Hotline Training Module. Introduction to: Drip Pads (40 CFR Parts 264/265, Subpart W).
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 14
Notes: Supersedes PB96-780242
NTIS No.: PB96-2507089
Report No.: EPA/530/R-96/027
Abstract: In 1990, U.S. EPA promulgated listings for wastes from wood preserving processes. Many of these wastes are generated by allowing preservative to drip from wood onto concrete pads, called drip pads. To facilitate proper handling of these wastes, U.S. EPA developed design and operating standards for drip pads used to manage hazardous wastes. This module defines a drip pad, summarizes the design and operating standards for drip pads and describes the relationship between generator accumulation provisions and drip pads.
Source: NTIS

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: Generators (40 CFR Part 262).

Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: 1996
Pages: 26
NTIS No.: PB96-207 105
Report No.: EPA/530/R-96/029
Abstract: The generator regulations ensure that hazardous waste is appropriately identified and handled safely to protect human health and the environment, while minimizing interference with daily business operations. This module explains the definitions and regulations that apply to generators of hazardous waste. Terms such as generator, episodic generation, empty tank, start time, and satellite accumulation are defined. The three classes of generators are listed, the different generation and accumulation limits are outlined, and the use of U.S. EPA identification numbers and manifests is explained. Regulations pertaining to accumulation in tanks, containers, containment buildings, and on drip pads are identified, and CFR sections covering recordkeeping and reporting requirements, as well as other applicable CFR sections, are cited.
Source: NTIS

RCRA
Generators

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: Land Disposal Restrictions (40 CFR Parts 268).

Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 30
Notes: Supersedes PB96-780200. See also PB96-207154.
NTIS No.: PB96-207147
Report No.: EPA/530/R-96/033
Abstract: The module presents an overview of the land disposal restrictions (LDR) program. It defines the basic terms and describes the structure of the LDR regulations. It identifies the statutory basis for LDR and describes the applicability of LDR. It explains how U.S. EPA sets treatment standards and identifies treatment standards for wastes subject to land disposal restrictions and cites the CFR section. It describes and identifies how exemptions and variances from treatment requirements are obtained, including Federal Register citations. It defines generator and Treatment, Storage, and Disposal Facility (TSDF) requirements under the LDR program. It summarizes the schedule of existing restrictions and the plan for restricting newly identified wastes.
Source: NTIS

RCRA/UST, Superfund, and EPCRA Hotline Training Module. Introduction to: Strategy for Hazardous Waste Minimization and Combustion.

Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: November 1995
Pages: 27
NTIS No.: PB96-780 416
Report No.: EPA/530/R-95/073
Abstract: This module presents an overview of the issues U.S. EPA has addressed within the context of the Strategy for Hazardous Waste Minimization and Combustion. The first section provides a detailed description of the history and goals of the strategy. The remaining sections present an in-depth discussion of hazardous waste minimization and combustion issues, such as regulatory requirements, controls and standards, risk assessment, enforcement and compliance assistance.
Source: NTIS

INSPECTION/COMPLIANCE

Documents

Advanced RCRA Inspector's Institute.
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response.
Date: 1993
Pages: Various
Notes: "The Advaced RCRA Inspector's Institute"--{sic}, "Swissotel Boston, December 13-17, 1993".
OCLC No.: 35660290
Abstract: Guide to the participant's manual -- Welcome and introduction -- Exploring inspection paradigms -- Waste minimization/pollution prevention -- Non-RCRA Interface / Multi-Media Inspections -- New Waste Issues - Notifier initiative – Import/Export issues -- Tribal lands inspection -- Combustion inspectors -- Air emissions -- "Gray Areas" in solid waste -- Case development and support -- Federal facilities -- Inspection paradigms revisited -- Evaluation form.
Source: OCLC

Environmental Compliance Branch, Standard Operating Procedures and Quality Assurance Manual, Revision 1.
Author: U.S. EPA, Athens, GA, Environmental Services Division
Date: 1991
Pages: 449
NTIS No.: PB91-233650
Abstract: The document contains the field procedures developed by U.S. EPA, Region IV, ESD for investigating hazardous waste sites for the RCRA and Superfund programs, performance of NPDES inspection and air monitoring. In particular, sampling of environmental media and waste, sample handling and preservation, decontamination of field equipment, installation of monitoring wells, and field quality assurance procedures are described. Sampling equipment is discussed and described, and surveying requirements for site characterization are given.
Source: NTIS

EPA Superfund Enforcement.
Author: U.S. EPA, Washington, DC, Office of Emergency and Remedial Response
Date: 1997
Pages: Open Series
Notes: Paper copy available as an ongoing subscription, credit card payment accepted or NTIS deposit account required. Single copies also available in paper copy or microfiche.
NTIS No.: PB97-963600
Abstract: This subscription provides the full reports issued by the Superfund program on enforcement. Topics include CERCLA and RCRA program management and implementation; comprehensive site planning; PRP search, notification, and information; and litigation support. Also included are inspection and information gathering; treatment, storage, and disposal; and waste management and enforcement.
Source: NTIS

Federal Facilities Hazardous Waste Compliance Manual.
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: 1990
Pages: 780
NTIS No.: PB90-188749
Report No.: OSWER-9992.4
Abstract: The manual includes an overview of the Federal facilities hazardous waste compliance program, relevant statutory authorities, model provisions for Federal facility agreements, enforcement and other applicable guidance, Federal facilities docket and NPL listings, data management information, selected DOD and DOE program guidance, and organization charts and contacts. This compendium is intended to be used as a reference by Regional RCRA and CERCLA enforcement personnel and Regional Counsels, particularly as an orientation guide for new Federal facilities staff.
Source: NTIS

Inspection Manual: Equipment Leak Regulations for the Chemical Manufacturing Industry.
Author: U.S. EPA, Office of Enforcement and Compliance Assurance (OECA), Office of Compliance
Date: February 1998
Pages: 300, three volumes
Report No.: EPA/305/B-96/005
Abstract: Volume I provides inspection procedures for determining compliance for equipment leak regulations promulgated under Parts 60, 61, and 63 of CAA and Parts 264 and 265 of RCRA, including sections on determining applicability, determining compliance through reports, recordkeeping and on-site inspections, as well as providing recommended inspection techniques and procedures. Volume II provides a side by side summary of equipment leak provisions, a summary of differences, a summary by component, a discussion of regulated equipment, and supporting test methods. Volume III provides the same information for regulations promulgated under Parts 60 and 63 for the petroleum industry.
Source: NCEPI

RCRA *Inspection/ Compliance*

Multi-Media Compliance Inspection Manual for Enforcement Programs in Air, Water, RCRA, CERCLA, TSCA & FIFRA. Fourth edition.
Author: U.S. EPA, Washington, DC, Office of Enforcement and Compliance Monitoring
Date: 1989
OCLC No.: 20533402
Call No.: KF3775.M8 1989
Source: OCLC

RCRA Compliance & Enforcement Manual.
Author Steinberg, Robert E.
Publisher: Shepard's/McGraw-Hill; Colorado Springs, CO
Date: 1992
OCLC No.: 27266352
Source: OCLC

RCRA Compliance Handbook.
Author: Neitzel, Charlotte L.
Publisher: Executive Enterprises Publications Co., New York
Date: 1992
Pages: 152
OCLC No.: 25004247
Source: OCLC

RCRA Corrective Action Inspection Guidance Manual.
Author: U.S. EPA, Washington, DC, Office of Enforcement and Compliance Assurance
Date: 1995
Pages: 139
NTIS No.: PB95-269189
Report No.: EPA/520/B-95/001
Abstract: The purpose of this guidance is to delineate inspection activities, which are critical for the successful completion of corrective action activities currently underway at many facilities. The document has been written for inspectors from the U.S. EPA and State environmental agencies (or their respective contractors) who will be conducting field oversight of owner/operator activities at hazardous waste facilities regulated under RCRA and undergoing corrective action. Many other U.S. EPA and State personnel, such as permit writers and enforcement personnel, should find this guidance manual useful.
Source: NTIS

RCRA Inspection Manual.
Author: U.S. EPA, Office of Solid Waste and Emergency Response, Washington, DC
Date: October 1993
Pages: 689
OCLC No.: 30325548
NEIS No.: 414
Report No.: 9938.02b
Abstract: This indispensable guide includes checklists for ensuring compliance as well as all other information necessary for inspections.
Source: OCLC, NEIS

Technical Implementation Document for U.S. EPA's Boiler and Industrial Furnace Regulations.
Author: U.S. EPA, Washington, DC, Office of Solid Waste
Date: 1992
Pages: 242
NTIS No.: PB92-154947
Report No.: EPA/530/R-92/011
Abstract: The document provides permit writers and owners/operators of BIFs with technical guidance in implementing the BIF Rule requirements. The document specifically addresses certain precompliance and compliance certification activities, permitting, continued compliance with operating requirements, and associated planning and testing required for compliance with the rule. The document does not address every requirement or aspect of the BIF rule, nor does it discuss the rationale for the requirements. It does not supersede any of the BIF regulations promulgated under RCRA, and it is not intended to address facility-specific and process-specific questions as they relate to the new rules.
Source: NTIS

Training

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: RCRA Enforcement and Compliance.
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 20
Notes: Supersedes PB96-780390. See also PB96-207220.
NTIS No.: PB96-207212
Report No.: EPA/530/R-96/040
Abstract: The module describes enforcement procedures and cites the statutory authority and describes the two different types of enforcement (i.e., administrative and judicial). It explains when and how U.S. EPA can enforce the RCRA regulations in authorized states. It describes the enforcement mechanisms available to U.S. EPA. It states the differences between enforcement at interim status and permitted facilities. It describes enforcement at federal facilities and identifies relevant resource documents.
Source: NTIS

RCRA
Inspection/ Compliance

Videos

Inspector Training Manual.
Author: U.S. EPA, Washington, DC
Date: 1988
Pages: 1 videocassette (84 min., 14 sec.)
Notes: VHS "Association of State and Territorial Solid Waste Management Officials."
OCLC No: 24072273
Abstract: Introduction to the video; RCRA overview; Safety procedures; Permits & compliance monitoring; Work ethics; Preparing for the inspection; Conducting the inspection; Post-inspection procedures; Sampling procedures; Basic evidence collection special procedures medical monitoring program.
Source: OCLC

RCRA

Inspection/ Compliance

PERMITTING

Documents

RCRA Permit Policy Compendium.
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: 1991
Pages: 13 volumes
OCLC No.: 24519740
Report No.: EPA/530/SW-91/062
NEIS No.: 1132
Abstract: User's guide key word index;
Abstract: The document is a compendium of all OSWER Policy Directives that deal with RCRA Permit Policy. Areas covered include hazardous waste management system (part 260); identification and listing of hazardous waste (part 261); transporter standards (part 263); TSDF technical requirements (parts 264 & 265); standards for managing specific hazardous wastes (part 266); permitting policies, permitting procedures (parts 124 & 270); air emissions standards, state authorization (part 271), land disposal restrictions (part 268); waste minimization, RCRA grant funds.
Source: OCLC, NEIS

RCRA Permit Policy Compendium Update Package. Revision 6 (through December 1996).
Author: U.S. EPA, Washington, DC, Office of Solid Waste
Date: 1997
Pages: 450
Format: Two 3 1/2 inch disks
NTIS No.: PB97-125348
Report No.: EPA/530/R-97/004
Abstract: This compendium provides references for regional and state permit writers on permitting policies and procedures. Update package includes entire new volume 1 - User's Guide and Keyword Index, as well as reference Memoranda, Letters, Office of Solid Waste and Emergency Response (OSWER) policy directives, and RCRA/UST, Superfund hotline summaries from January 1, 1996 through December 31, 1996. The package also contains the new index, computer disk, and new spines and covers.
Source: NTIS

Technical Implementation Document for U.S. EPA's Boiler and Industrial Furnace Regulations.
Author: U.S. EPA, Washington, DC, Office of Solid Waste
Date: 1992
Pages: 242
NTIS No.: PB92-154947
Report No.: EPA/530/R-92/011
Abstract: The document provides permit writers and owners/operators of BIFs with technical guidance in implementing the BIF Rule requirements. The document specifically addresses certain precompliance and compliance certification activities, permitting, continued compliance with operating requirements, and associated planning and testing required for compliance with the rule. The document does not address every requirement or aspect of the BIF rule, nor does it discuss the rationale for the requirements. It does not supersede any of the BIF regulations promulgated under RCRA. Finally, it is not intended to address facility-specific and process-specific questions as they relate to the new rules.
Source: NTIS

RCRA Permitting

Waste Management Area (WMA) and Supplemental Well (SPW) Guidance.
Author: U.S. EPA, Washington, DC, Office of Solid Waste
Date: 1993
Pages: 61
NTIS No.: PB94-107695
Report No.: EPA/530/R-93/022
Abstract: The document provides guidance regarding the implementation of WMA and SPW approaches according to the proposed amendments to the Subpart F Rule. The document will assist permit writers in defining single or multiple WMAs and includes a description of the proposed criteria to be considered when defining WMAs. The document also provides guidance for identifying the need for SPWs, describes the difference between SPWs and POC wells, and explains the use of SPWs for corrective action. Real and hypothetical cases are presented as examples throughout the document. Appendix I

contains proposed modifications to the model permit language to be used in implementing the WMA and SPW approaches. Appendix II compares and contrasts the objectives and uses of WMAs and Corrective Action Management Units (CAMUs).
Source: NTIS

Training

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: Permits and Interim Status (40 CFR Part 270).
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 26
Notes: Supersedes PB96-780218. See also PB96-207204.
NTIS No.: PB96-207196
Report No.: EPA/530/R-96/038
Abstract: Owners/operators of facilities that treat, store, or dispose of hazardous waste must obtain an operating permit, as required by Subtitle C of the Resource Conservation and Recovery Act (RCRA). The module presents an overview of the RCRA permitting process and the requirements that apply to TSDFs operating under interim status until a permit is issued. The regulations governing the permit process are found in 40 CFR Parts 124 through 270.
Source: NTIS

RCRA
Permitting

Videos

Permit Writer's Training Manual Videorecording.
Author: University of Michigan (System). Regents; Association of State and Territorial Solid Waste Management Officials
Date: 1989
Format: 1 VHS videocassette (1 hr., 24 min.)
OCLC No.: 24813550
Abstract: Introduction; Waste Management under RCRA; Administrative Process and Record; Contents of the Permit Application; Technical Standards and Review; Writing the Permit; Involving the Public.
Source: OCLC

TRANSPORTERS

Training

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: Transporters (40 CFR Part 263).

Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 15
NTIS No.: PB96-207279
Report No.: EPA/530/R-96/046
Abstract: The report provides an overview of the regulatory requirements of transporters of hazardous waste. It lists the conditions and requirements for a transfer facility. It identifies transporter recordkeeping and manifesting requirements. It identifies transporter requirements when exporting hazardous waste. It states the conditions under which a transporter is subject to the generator regulations and cites the CFR section covering the transporter responsibilities for hazardous waste discharges.
Source: NTIS

TREATMENT, STORAGE, AND DISPOSAL (TSD)

Documents

Organic Air Emissions from Waste Management Facilities.
Author: U.S. EPA, Cincinnati, OH, Center for Environmental Research Information.; U.S. EPA, Research Triangle Park, NC, Office of Air Quality Planning and Standards
Date: 1992
Pages: 126
NTIS No.: PB93-215598
Report No.: EPA/625/R-92/003
Abstract: RCRA standards limit organic air emissions as a class from process vents and equipment leaks at hazardous waste treatment, storage, and disposal facilities requiring a permit under Subtitle C of RCRA. Standards promulgated under the CAA limit emissions of benzene from benzene waste operations. The seminar publication helps improve understanding of the air rules that apply to waste management operations, focusing on control technologies and the RCRA and CAA regulations.
Source: NTIS

RCRA
TSD

RCRA Land Disposal Restrictions: A Guide to Compliance, 1995 edition.
Publisher: Elsevier Science Inc., New York, NY
Date: 1994
Pages: Various
OCLC No.: 36479973
Source: OCLC

Waste Analysis at Facilities that Generate, Treat, Store, and Dispose of Hazardous Wastes - A Guidance Manual.
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: 1994
OCLC No.: 30709065
Stock No: PB94-963603
Report No.: EPA/530/R-94/024; 9938.4-03
Abstract: Updates Agency's 1984 manual and incorporates many changes to hazardous waste regulations including the land disposal restrictions. Assists facility owners, operators and other facility personnel in preparing waste analysis plans.
Source: OCLC, NEIS

Software

Biennial Reporting System (BRS) Data: Generation and Management of Hazardous Waste, 1995 (on CD-ROM).
Author: U.S. EPA, Washington, DC, Office of Solid Waste
Date: 1995
Notes: This product contains text only. Customers must provide their own search and retrieval software. The following documentation is in Adobe Acrobat PDF format on the CD: Instruction Manual, the 1995 Hazardous Waste Report Instructions and Forms, and the Flat File Index. Windows version of Acrobat reader also on CD.
NTIS No.: PB97-501993
Abstract: The product contains data describing the RCRA wastes generated and/or managed during 1995 by RCRA TSDFs and LQGs compiled by the Biennial Reporting System (BRS) for the 'National Biennial RCRA Hazardous Waste Report (Based on 1995 data)'. The data were collected by states using the '1995 National Hazardous Waste Report Instructions and Forms' (EPA Form 8700-13-A/B), or the state's equivalent information source. Data submitted by states prior to December 31, 1996 are included. Data for reports protected by RCRA Confidential Business Information (CBI) claims are not included. These data are preliminary and will be replaced by the final data. Sites are identified by their U.S. EPA/RCRA identification number.
Source: NTIS

Training

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: Containers (40 CFR Parts 264/265, Subpart I; Section 261.7).

Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 17
Notes: Supersedes PB96-780226. See also PB96-207063. Also available in kit of 30 components PC E99/MF E99, PB96-207014.
NTIS No.: PB96-207055
Report No.: EPA/530/R-96/024
Abstract: The module reviews two sets of regulatory requirements for containers: requirements that pertain to the management of hazardous waste containers and regulations governing residues of hazardous waste in empty containers. It defines 'container' and 'empty container' and provides examples and citations for each. It provides an overview of the requirements for the design and operation of hazardous waste containers. It explains the difference between the container standards set out in part 264 and part 265. It states the requirements for rendering a hazardous waste container 'RCRA empty'. It explains when container rinsate must be managed as a hazardous waste.
Source: NTIS

RCRA/UST, Superfund, and EPCRA Hotline Training Module. Introduction to: Containment Buildings (40 CFR Parts 264/265, Subpart DD).

Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 16
Notes: Supersedes PB96-780259
NTIS No.: PB96-207063
Report No.: EPA/530/R-96/023
Abstract: In 1992, U.S. EPA developed standards for a new hazardous waste management unit called a containment building. Containment buildings, which are essentially waste piles enclosed in a building, facilitate management of bulky materials without triggering land disposal and land disposal restrictions (LDR). This module outlines the regulatory history and purpose of containment buildings. It discusses the relationship between LDR and containment buildings, summarizes the design and operating standards applicable to containment buildings, and describes the relationship between generator accumulation standards and containment buildings.
Source: NTIS

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: Definition of Solid Waste and Hazardous Waste Recycling (40 CFR Sections 261.2 and 261.9).

Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 26
Notes: Supersedes PB96-780168. See also PB96-207089.
NTIS No.: PB96-207071
Report No.: EPA/530/R-96/026
Abstract: The module addresses the statutory and regulatory definitions of solid waste, including the standards governing the recycling and management of specific types of waste. It explains the use of the table in 261.2 and the preamble to the January 4, 1985 *Federal Register* (50 FR 614). It lists and cites three use/reuse scenarios where the materials are not solid wastes and states the requirements for documentation. It lists examples of sham recycling, and describes the conditions under which hazardous waste-derived products may be excluded from regulation. It cites the provisions for precious metals recovery and discusses potential regulatory developments affecting the definition of solid waste and hazardous waste recycling.
Source: NTIS

RCRA/UST, Superfund, and EPCRA Hotline Training Module. Introduction to: Drip Pads (40 CFR Parts 264/265, Subpart W).
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 14
Notes: Supersedes PB96-780242
NTIS No.: PB96-2507089
Report No.: EPA/530/R-96/027
Abstract: In 1990, U.S. EPA promulgated listings for wastes from wood preserving processes. Many of these wastes are generated by allowing preservative to drip from wood onto concrete pads, called drip pads. To facilitate proper handling of these wastes, U.S. EPA developed design and operating standards for drip pads used to manage hazardous wastes. This module defines a drip pad, summarizes the design and operating standards for drip pads and describes the relationship between generator accumulation provisions and drip pads.
Source: NTIS

RCRA

TSD

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: Groundwater Monitoring (40 CFR Parts 264/265, Subpart F).
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 32
Notes: Supersedes PB96-780333. See also PB96-207121.
NTIS No.: PB96-207113
Report No.: EPA/530/R-96/030
Abstract: The module presents the requirements for groundwater monitoring at interim status and permitted treatment, storage, and disposal facilities (TSDFs) under the Resource Conservation and Recovery Act (RCRA). The goal of the module is to explain the standards and specific requirements for groundwater monitoring programs at interim status and permitted facilities.
Source: NTIS

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: Hazardous Waste Incinerators (40 CFR Parts 264/265, Subpart O).
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 18
Notes: Supersedes PB96-780283. See also PB96-207147.
NTIS No.: PB96-207139
Report No.: EPA/530/R-96/032
Abstract: The module introduces the concept of burning hazardous wastes in units regulated under RCRA and outlines the requirements for one type of device - the incinerator. It explains what an incinerator is and how incinerators are regulated, and states the conditions under which an owner/operator may be exempt from subpart O. It defines principal organic hazardous constituent (POHC) and describes the criteria under which a POHC is selected. It defines destruction and removal efficiency (DRE) and describes the interaction between compliance with performance standards and compliance with incinerator operating conditions established in the permit. It defines and explains the purpose of a 'trial burn'.
Source: NTIS

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: Land Disposal Restrictions (40 CFR Parts 268).
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 30
Notes: Supersedes PB96-780200. See also PB96-207154.
NTIS No.: PB96-207147
Report No.: EPA/530/R-96/033
Abstract: The module presents an overview of the land disposal restrictions (LDR) program. It defines the basic terms and describes the structure of the LDR regulations. It identifies the statutory basis for LDR and describes the applicability of LDR. It explains how U.S. EPA sets treatment standards and identifies treatment standards for wastes subject to land disposal restrictions and cites the CFR section. It describes and identifies how exemptions and variances from treatment requirements are obtained, including Federal Register citations. It defines generator and Treatment, Storage, and Disposal Facility (TSDF)

requirements under the LDR program. It summarizes the schedule of existing restrictions and the plan for restricting newly identified wastes.
Source: NTIS

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: Land Disposal Units (40 CFR Parts 264/265, Subparts K, L, M, N).
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 19
Notes: Supersedes PB96-780267. See also PB96-207162.
NTIS No.: PB96-207154
Report No.: EPA/530/R-96/034
Abstract: The module provides an overview of the requirements for landfills, surface impoundments, waste piles, and land treatment units. It summarizes the differences between interim status (Part 265) and permitted (Part 264) standards for land disposal units. It defines 'surface impoundment' and distinguishes surface impoundments from tanks and describes surface impoundment retrofitting and retrofitting variance procedures. It explains the connection between land disposal standards, post-closure, and groundwater monitoring.
Source: NTIS

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: Miscellaneous and Other Units (40 CFR Part 264, Subpart X and 40 CFR Part 265, Subparts P, Q, and R).
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 18
Notes: Supersedes PB96-780275. See also PB96-207170.
NTIS No.: PB96-207162
Report No.: EPA/530/R-96/035
Abstract: The module describes the basic requirements and types of units of 40 CFR Part 264, Subpart X and standards for broadly defined treatment processes - Thermal treatment (Part 265, Subpart P); chemical, physical, and biological treatment (Subpart Q); and underground injection (Subpart R). Explains when corrective action applies to these subparts. It presents the relationship between Part 264, Subpart X, and Part 265, Subparts P, Q, and R.
Source: NTIS

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: RCRA Treatment, Storage, and Disposal Facilities (40 CFR Parts 264/265, Subparts A-E).
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 22
Notes: Supersedes PB96-780192. See also PB96-207295.
Call No. PB96-207287
Report No. EPA/530/R-96/047
Abstract: The management of hazardous waste at treatment, storage, and disposal facilities (TSDFs) plays a large and critical role in the RCRA regulatory scheme. The training module presents an overview of the general TSDF standards found in 40 CFR Parts 264/265, Subparts A through E.
Source: NTIS

RCRA/UST, Superfund, and EPCRA Hotline Training Module. Introduction to: Strategy for Hazardous Waste Minimization and Combustion.
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: November 1995
Pages: 27
NTIS No.: PB96-780 416
Report No.: EPA/530/R-95/073
Abstract: This module presents an overview of the issues U.S. EPA has addressed within the context of the Strategy for Hazardous Waste Minimization and Combustion. The first section provides a detailed description of the history and goals of the strategy. The remaining sections present an in-depth discussion of hazardous waste minimization and combustion issues, such as regulatory requirements, controls and standards, risk assessment, enforcement and compliance assistance.
Source: NTIS

RCRA/UST, Superfund, and EPCRA Hotline Training Module. Introduction to: Tanks.
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 24
NTIS No.: PB96-207 261
Report No.: EPA/530/R-96/045
Abstract: This module explains why and how Subpart J regulations apply to tanks holding hazardous waste. This manual identifies which tanks are regulated, defines specific terms pertaining to HW tanks, and provides CFR and FR citations. New tanks are distinguished from existing tanks, and how this status affects applicable regulations is explained. Secondary containment requirements are discussed, and requirements promulgated under HSWA and non-HSWA authority are differentiated and their applicability is explained.
Source: NTIS

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: Used Oil (40 CFR Part 266, Subparts E, and Part 279).
Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 32
Notes: Supersedes PB96-780309. See also PB96-780416.
NTIS No.: PB96-207295
Report No.: EPA/530/R-96/048
Abstract: The module reviews the various regulatory requirements associated with used oil management. The goal of the training module is to provide an overview of the used oil management program and to explain the different regulatory scenarios that can apply to used oil. The module begins by briefly tracing the developmental history of the regulations concerning used oil. A summary of the present used oil management program, as well as a brief summary of the former program, provides a basic comparison and introduction to both programs.
Source: NTIS

RCRA
TSD

UNDERGROUND STORAGE TANKS (USTs)

On-line Access

U.S. EPA Office of UST (OUST)
URL: http://www.epa.gov/OUST/
Abstract: The Office of Underground Storage Tanks (OUST) site provides current information relevant to the Federal underground storage tank program, including publications about UST requirements. It provides direct links to home pages of many state and regional UST programs.

CLU-IN: UST Special Interest Area
URL: http://www.clu-in.com/ust1.htm
Abstract: The CLU-IN Special Interest Area (SIA) for the U.S. EPA Office of Underground Storage Tanks (OUST) provides direct links to the home pages (where they exist) of the UST programs in each of the 56 states and territories, the 10 U.S. EPA Regional Offices, as well as to OUST's home page. The site also contains files organized within 13 topic areas relating to USTs.

Documents

Are You Upgrading an Underground Storage Tank System?
Date: August 1997
Report No.: EPA/510/F-97/009
Abstract: This leaflet can help UST owners and operators make sound decisions about choosing tank integrity assessment methods and upgrading USTs to meet 1998 deadline requirements.
Download: http://www.epa.gov/swerust1/pubs/upgrade.wpd (730 KB, WordPerfect V.6.1 file)

Closing Underground Storage Tanks: Brief Facts.
Date: July 1996
Report No.: EPA/510/F-96/004
Pages: 2
Abstract: This tri-fold flyer presents briefly stated facts about proper UST system closure.
Download: http://www.epa.gov/swerust1/pubs/clo.exe (91 KB. Compressed, self-extracting file)
Download: http://www.epa.gov/swerust1/pubs/clo.w61 (178 KB, WordPerfect V.6.1 file)

Doing Inventory Control Right: For Underground Storage Tanks.
Date: November 1993
Report No.: EPA/510/B-93/004
Pages: 17
Abstract: 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.
Download: http://www.epa.gov/swerust1/pubs/inventry.exe (571 KB. Compressed, self-extracting file)
Download: http://www.epa.gov/swerust1/pubs/INVENTRY.WP1 (448 KB. WordPerfect V.5.1 format)

RCRA
USTs

Dollars & Sense.
Date: July 1995
Report No.: EPA/510/K-95/004
Pages: 15
Abstract: This booklet provides a 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.
Download: http://www.epa.gov/swerust1/pubs/dollars.exe (118 KB. Compressed, self-extracting file)
Download: http://www.epa.gov/swerust1/pubs/dollars.w61 (409 KB, 6-22-95. WordPerfect V.5.1 file)
Download: http://www.epa.gov/swerust1/pubs/dol&sens.pdf (PDF Format)

Don't Wait Until 1998: Spill, Overfill, and Corrosion Protection for Underground Storage Tanks.
RCRA USTs
Date: April 1994
Report No.: EPA/510/B-94/002
Pages: 16
Abstract: This booklet clearly explains how UST owners and operators can meet 1998 deadline for upgrading, closing, or replacing UST systems installed before December 1988.
Download: http://www.epa.gov/swerust1/pubs/dontwt61.exe (224 KB, 2-18-97. Compressed, self-extracting file)
Download: http://www.epa.gov/swerust1/pubs/dontwait.w61 (401 KB, 2-18-97. WordPerfect V.6.1 file)
Download: http://www.epa.gov/swerust1/pubs/dontwt51.exe (236 KB, 2-18-97. Compressed, self-extracting file)
Download: http://www.epa.gov/swerust1/pubs/dontwait.wp (449 KB, 10-11-96. WordPerfect V.5.1 file)
Download: http://www.epa.gov/swerust1/pubs/dwspnish.exe (210 KB. Spanish translation (EPA/510/B-95/008). Compressed, self-extracting file)

Don't Wait Until 1998: Brief Facts.
Report No.: EPA/510/F-95/002
Abstract: This leaflet is intended for distribution to owners and operators via mass mailings, newsletters, or other periodic mailings.
Download: http://www.epa.gov/swerust1/pubs/1998let.exe (133 KB, 1-13-97. Compressed, self-extracting file)
Download: http://www.epa.gov/swerust1/pubs/1998let.w61 (223 KB, 6-21-95. WordPerfect V.6.1 file)

Expedited Site Assessment Tools for Underground Storage Tank Sites: A Guide for Regulators.
NEW
Author: U.S. EPA, Office of Underground Storage Tanks
Date: March 1997
Report No.: EPA/510/B-97/001
Abstract: The expedited site assessment (ESA) process is a framework for rapidly characterizing UST site conditions for corrective action decisions. This concept has been described with other names including: accelerated site characterization, rapid site characterization, and expedited site investigation. OUST has prepared a guidance manual to help state regulators understand the ESA process so that they can more effectively oversee and promote ESAs to improve the remediation process. The manual discusses the applicability, advantages, and limitations of various site assessment equipment and methods.
Source: GPO

Guidance Manual for Petroleum-Related LUST Cleanups in Illinois, Spring 1990. 2nd edition.
Author: Illinois State EPA, Springfield, Division of Land Pollution Control
Date: 1990
Pages: 194
Notes: See also PB90-125378. Errata sheet inserted.
NTIS No.: PB90-244203
Report No.: IEPA/LPC-90/47
Abstract: The manual explains the Illinois EPA's Leaking Underground Storage Tank (LUST) Program. It is designed to assist the owners and operators of Illinois' underground storage tanks (USTs) in dealing with releases of petroleum products from their systems. The manual is presented in chronological step-by-step format so that tank owners and operators may easily fulfill the current requirements of the Illinois regulations and understand IEPA

procedures. The manual covers all aspects of dealing with LUSTs, from how to determine if a release of a petroleum product has occurred, to how to clean-up the release and how to apply for reimbursement for corrective action costs from the Illinois Underground Storage Tank Fund.
Source: NTIS

How to Effectively Recover Free Product at Leaking Underground Storage Tank Sites: A Guide for State Regulators.
Date: September 1996
Report No.: EPA/510/R-96/001
Abstract: This guide helps underground storage tank regulators understand the portion of a UST corrective action plan that proposes free product recovery technologies. The manual focuses on appropriate technology use, taking into consideration site-specific conditions. The guide helps answer whether free product recovery is necessary, if an appropriate method has been proposed for recovery, and if the recovery plan provides a technically sound approach for site remediation.

How to Evaluate Alternative Cleanup Technologies for Underground Storage Tank Sites: A Guide for Corrective Action Plan Reviewers.
Date: September 1996
Report No.: EPA/510/B-94/003
GPO No.: 055-000-00499-4
Abstract: This manual covers 8 alternative technologies: soil vapor extraction (SVE), air sparging, biosparging, landfarming, biopiles, bioventing, low-temperature thermal desorption, and natural attenuation. In May 1995, two additional chapters (dual-phase extraction and in situ groundwater bioremediation) were added and the Introduction and Glossary were updated at the same time. The revised document carries the same title but a new number—EPA/510/B-95/007. The entire guide, which includes complete chapters (with diagrams, flowcharts, and checklists) on all 10 of the alternative technologies and a glossary, is available from the Government Printing Office.
Download: http://www.epa.gov/swerust1/pubs/tumstext.exe (369 KB. Compressed, self-extracting file decompresses into a WordPerfect 5.1/2 file of the first 8 technologies. TEXT ONLY.)
Download: http://www.epa.gov/swerust1/pubs/tumintro.w51 (26 KB. Word Perfect V.5.1. file. Updated introduction to 'How to Evaluate Alternative Cleanup Technologies for UST Sites...')
Download: http://www.epa.gov/swerust1/pubs/atmglos2.w51 (69 KB. Word Perfect V.5.1 file. Updated glossary for the alternative technology manual (includes words from 2 new chapters))
Download: http://www.epa.gov/swerust1/pubs/dualphas.w51 (161 KB. Word Perfect V.5.1 file. New chapter on 'Dual-Phase Extraction'. TEXT ONLY.)
Download: http://www.epa.gov/swerust1/pubs/insitbio.wp5 (154 KB. Word Perfect V.5.1 file. New chapter on "in situ groundwater bioremediation'. TEXT ONLY.)
Source: GPO

Introduction to Statistical Inventory Reconciliation: For Underground Storage Tanks.
Date: September 1995
Report No.: EPA/510/B-95/009
Pages: 12
Abstract: This booklet provides basic information on this leak detection method.
Download: http://www.epa.gov/swerust1/pubs/sir.exe (604 KB. Compressed, self-extracting file decompresses into a Microsoft Word for Windows V.6.0 file)

RCRA
USTs

List of Leak Detection Evaluations for UST Systems. 3rd Edition, April 25, 1997.
Report No.: EPA/510/B-97/004
Download: http://www.epa.gov/swerust1/pubs/ldlistwd.exe (308 KB. Compressed, self-extracting file decompresses into a Microsoft Word for Windows V.6.0 file)
Download: http://www.epa.gov/swerust1/pubs/ldlistwp.exe (275 KB. Compressed, self-extracting file decompresses into a WordPerfect V.5.1 file)
Download: http://www.epa.gov/swerust1/pubs/ldlist3.pdf (1.1 MB. PDF Format)

Manual Tank Gauging: For Small Underground Storage Tanks.
Date: November 1993
Report No.: EPA/510/B-93/005
Pages: 12
Abstract: This booklet provides simple, easy to follow, step-by-step directions for the correct way to conduct manual tank gauging for tanks 2,000 gallons or smaller.
Download: http://www.epa.gov/swerust1/pubs/manltank.wp (358 KB. Compressed, self-extracting file decompresses into a WordPerfect V.5.1 file)
Download: http://www.epa.gov/swerust1/pubs/manltank.wp (1.0 MB. WordPerfect V.5.1 format)

Musts for USTs: A Summary of the Federal Regulations for Underground Storage Tank Systems.
Report No.: EPA/510/K-95/002
Pages: 40
Abstract: This booklet summarizes Federal UST requirements for installation, release detection, spill, overfill, and corrosion protection, corrective action, closure, reporting and recordkeeping.
Download: http://www.epa.gov/swerust1/pubs/mustsw61.exe (1.85 MB Compressed, self-extracting file decompresses into a WordPerfect V.6.1 file)
Download: http://www.epa.gov/swerust1/pubs/nu-musts.wpd (4.4 MB WordPerfect V.6.1 file)
Download: http://www.epa.gov/swerust1/pubs/mustswp5.exe (1.6 MB Compressed, self-extracting file decompresses into a WordPerfect V.5.1 file)
Download: http://www.epa.gov/swerust1/pubs/nu-musts.wp5 (3.5 MB WordPerfect V.5.1 file)

Ordering Information on Underground Storage Tanks.
Date: June 1997
Report No.: EPA/510/F-97/003
Abstract: This leaflet describes free UST informational leaflets and booklets, as well as several videos available for a fee.
Download: http://www.epa.gov/swerust1/pubs/orderust.wpd (836 KB, 05-27-97. WordPerfect V.6.1 file)
Download: http://www.epa.gov/swerust1/pubs/orderust.exe (602 KB, 07-01-97. Compressed, self-extracting file decompresses into a WordPerfect V.6.1 file)

Pay-For-Performance Cleanups: Effectively Managing Underground Storage Tank Cleanups.
Date: June 1996
Report No.: EPA/510/B-96/002
Abstract: This guide to performance-based cleanup contracting as an alternative to traditional time-and-materials cleanup contracts contains the follow sections: Section 1 for policy makers. Why pay-for-performance cleanups can achieve cleanup goals faster and more cost-effectively than time-and-materials cleanups. Section 2 for managers of cleanup funds or programs. How to start, scale up, and maintain a program of pay-for-performance UST cleanups. Section 3 for hands-on cleanup overseers. How to draft an individual pay-for-performance UST cleanup agreement. This guide is a starting point from which state officials, cleanup contractors, and UST owners can design PFP cleanup programs tailored to their own circumstances.
Download: http://www.epa.gov/swerust1/pubs/pfp.exe (71 KB. Compressed, self-extracting file decompresses into a WordPerfect V.6.1 file)
Download: http://www.epa.gov/swerust1/pubs/pfp.w61 (170 KB WordPerfect V.6.1 file)
Download: http://www.epa.gov/swerust1/pubs/pfp.pdf (PDF format)

State Funds in Transition: Models for Underground Storage Tank Assurance Funds.
Date: January 1997
Report No.: EPA/510/B-97/002
Pages: 40
Abstract: This booklet is intended for state officials who are considering changes and alternatives to their state funds. The booklet presents "case studies" describing some of the activities that three states have conducted in making a transition from a state fund program to other financial assurance mechanisms. The booklet also describes five programs that might serve as "models" for states that have decided to change the structure of their state funds.
Download: http://www.epa.gov/swerust1/pubs/statefnd.exe (compressed, self-extracting file, 116 KB)

Straight Talk on Tanks: Leak Detection Methods for Petroleum Underground Storage Tanks and Piping.
Date: September 1997
Report No.: EPA/510/B-97/007
Pages: 28
Abstract: This booklet, which has been newly updated, provides easy-to-understand descriptions of several leak detection methods for tanks and piping, as well as explanations of the regulatory requirements for leak detection. Leak detection methods include: secondary containment with interstitial monitoring, automatic tank gauging, vapor monitoring, groundwater monitoring, statistical inventory control, tank tightness testing with inventory control, and manual tank gauging.
Download: http://www.epa.gov/swerust1/pubs/stot97.exe (609 KB. Compressed, self-extracting file decompresses into a WordPerfect V.6.1 file)
Download: http://www.epa.gov/swerust1/pubs/stot97.wpd (1.4 MB, 8-28-97. WordPerfect V.6.1 file)

UST/LUST Enforcement Procedures Guidance Manual.
Author: U.S. EPA, Washington, DC, Office of Underground Storage Tanks
Date: July 1990
Pages: 54
OCLC No:. 26706634
NEIS No.: *528*
Report No.: 9610.11
Abstract: This manual, written by and for U.S. EPA's enforcement staff, contains the guidance that leads agency inspectors as they respond to violations of UST technical regulations. The manual also contains concise, plain English explanations of corrective action requirements.
Source: OCLC, NEIS

Underground Storage Tanks: Requirements and Options.
Date: June 1997
Report No.: EPA/510/F-97/005
Abstract: A leaflet directed to nonmarketers of petroleum that provides a quick overview of responsibilities and choices for complying with Federal UST regulations. The leaflet also provides a selected list of relevant publications and other sources of information about USTs.
Download: http://www.epa.gov/swerust1/pubs/ustsrao.exe (compressed, self-extracting file, 600 KB)

RCRA
USTs

Use of Natural Attenuation at Superfund, RCRA Corrective Action, and Underground Storage Tank Sites.

Publisher: U.S. EPA Office of Solid Waste and Emergency Response
Date: December 1997
Pages: 34
Report No.: OSWER 9200.4-17
Abstract: This directive clarifies U.S. EPA's policy regarding the use of monitored natural attenuation for the remediation of contaminated soil and groundwater at sites regulated under all programs administered by U.S. EPA's OSWER, including Superfund, RCRA Corrective Action, and USTs.
Download: http://www.epa.gov/swerust1/directive/d9200417.pdf (PDF format)
Download: http://www.epa.gov/swerust1/directive/9200417z.htm (preformatted text)
Download: http://www.epa.gov/swerust1/directive/9200_417.htm (with hyperlinks)
Download: http://www.epa.gov/swerust1/directive/d9200417.wpd (WordPerfect 6.1)

RCRA
USTs

UST Program Facts: Implementing Federal Requirements for Underground Storage Tanks.

Date: December 1996
Report No.: EPA/510/B-96/007
Abstract: A collection of 8 fact sheets designed to help Federal and state authorities answer the most frequently asked questions about USTs with consistent, accurate information in plain language. Other interested parties will find this publication provides a concise, comprehensive review of regulatory programs for USTs. The 8 fact sheets are in HTML format. These updated fact sheets have hypertext links to other information resources.
Download: http://www.epa.gov/swerust1/pubs/ustfact.exe (1.1 MB. Compressed, self-extracting file decompresses into a WordPerfect V.6.1 file)
Download: http://www.epa.gov/swerust1/pubs/ustfacts.96 (1.6 MB. WordPerfect V.6.1)

Training

RCRA/UST, Superfund, and EPCRA Hotline Training Module. Introduction to: RCRA Subtitle I. Underground Storage Tanks (40 CFR Part 280).

Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 24
Notes: Supersedes PB96-125752.
NTIS No.: PB96-211727
Report No.: EPA/510/B-06/006
Abstract: This module explains the Underground Storage Tank Regulatory Program established in 1988 that includes technical requirements to prevent, protect, and clean up releases from Underground Storage Tanks (USTs), as well as financial responsibility requirements to guarantee that UST owners and operators have enough money set aside to clean up releases and compensate third parties. Describes the Universe of USTs and the technical and financial requirements that apply to them. Defines underground storage tank and provides criteria for determining which USTs are subject to regulation. Discusses deadlines for upgrading tanks and the closure and corrective action requirements.
Source: NTIS

RCRA, Superfund and EPCRA Hotline Training Module. Introduction to: Tanks (40 CFR Parts 264/265, Subpart J).

Author: U.S. EPA, Washington, DC, Office of Solid Waste and Emergency Response
Date: July 1996
Pages: 25
Notes: Supersedes PB96-780234. See also PB96-207279.
NTIS No.: PB96-207261
Report No.: EPA/530/R-96/045
Abstract: The module identifies, based on tank contents and operation, tanks that are regulated under parts 264/265, subpart J. It defines specific terms pertaining to hazardous waste tanks, and provides CFR or *Federal Register* citations. It distinguishes 'new tanks' from 'existing tanks' and identifies how this status affects applicable regulations. It discusses secondary containment requirements for liners, vaults, and double-walled tanks, as well as secondary containment for ancillary equipment. It identifies which of the hazardous waste requirements were promulgated under the Hazardous and Solid Waste Amendments (HSWA) and non-HSWA authority and explains how each applies in authorized and unauthorized states.
Source: NTIS

Videos

Searching For an Honest Tank: A Guide to Underground Storage Tank Facility Compliance Inspections.
Author: New England Interstate Environmental Training Center, South Portland, ME
Date: 1992
Report No.: EPA/510/V-92/101
Format: Video [UST #76V] & companion booklet
Source: (207) 767-2539 [tel.], (207) 767-7174 [fax]

RCRA

USTs

TOXIC SUBSTANCES CONTROL ACT SOURCES

Brief History of the Toxic Substances Control Act

1976 - Congress passed the Toxic Substances Control Act (TSCA) to test, regulate, or screen all chemicals produced or imported into the United States.

- Authorized the United States Environmental Protection Agency (U.S. EPA) to monitor and control the risks posed by commercial chemical substances to ensure broad cradle to grave regulatory authority for chemicals produced, used or imported into the U.S.
- Provided U.S. EPA broad regulatory powers over chemical substances and mixtures and the authority to require manufacturers to conduct testing, maintain recordkeeping, and report their production, use, labeling and disposal of chemicals.

Regulations pertaining to TSCA can be found in 40 CFR Parts 700-799, available on-line at http://www.epa.gov/docs/epacfr40/subch-R/. Check the *Federal Register* for new rules, proposed rules and notices at http://www.access.gpo.gov/su_docs/aces/aces140.html

GENERAL

Hotlines

TSCA Hotline
Tel: (202) 554-1404
(202) 554-0551 [TDD]
Fax: (202) 554-5603
E-mail: tscahotline@epamail.epa.gov
Hours: 8:30 a.m. to 5:00 p.m. (EST), M-F
Abstract: The TSCA Hotline, operating under contract to U.S. EPA, is staffed by professionals trained to provide technical assistance and information about programs under TSCA, including the Asbestos School Hazard Abatement Act (ASHAA), the Asbestos Hazard Emergency Response Act (AHERA), the Lead Exposure Reduction Act, and some Pollution Prevention activities, including the 33/50 Program. The Hotline stocks TSCA-related documents, including *Federal Register* notices, reports, and information brochures and booklets. These are available free of charge. Anyone with questions about these activities may contact the Hotline for information and assistance.

TSCA
General

On-line Access

Chemicals on Reporting Rules (CORR) Database
URL: http://www.epa.gov/opptintr/CORR/
Abstract: The CORR database contains information on chemicals which are regulated under specific sections of the Toxic Substances Control Act (TSCA), or Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). These chemicals have been the subject of proposed or final rules issued by the Office of Pollution Prevention and Toxics (OPPT) in the Federal Register. TSCA 5(e) consent order chemicals subject to the TSCA 12(b) rule are also included.

EnviroSense
Common Sense Solutions to Environmental Problems

**** Reminder **** - For the most up-to-date information, check U.S. EPA's Enviroene web site, http://es.epa.gov, or check with a local technical assistance provider (see Appendix B).

To obtain the materials listed, see page 2.

TSCA TOC

General 87
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Inspection/Compliance.....91
Inventory 92
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Substantial Risk Notification:
Section 8(e).....94

TOXNET (National Library of Medicine)
URL: http://hlm.nih.gov
Telnet: toxnet.nlm.nih.gov:23/
Modem: (301) 946-1184
Tel: (301) 496-6531
Abstract: Once in the TOXNET system, the user may select to access the TRI database or one of several other information units containing data on the health and ecological effects of toxic chemicals. Chemical safety and handling descriptions are also available.

Documents

Answering User Needs For TSCA Information Products Resource and Policy Issues.
Author: U.S. EPA, Office of Pollution Prevention and Toxics
Date: September 1992
Pages: 51
Call No.: T58.64.A57 1992
OCLC No.: 32915024
Report No.: 68-D8-0116
Source: OCLC

Complete Guide to the Hazardous Waste Regulations: A Comprehensive, Step-By-Step Guide to the Regulation of Hazardous Wastes under RCRA, TSCA, HMTA, OSHA, and Superfund. Second edition.
Author: Wagner, Travis.
Publisher: Van Nostrand Reinhold, New York, NY
Date: 1994
Pages: 488
Call No.: KF3946.W34 1994
OCLC No.: 32901335
LCCN: 90012356
ISBN: 0442003552 0442019319
Notes: Rev. ed. of: The complete handbook of hazardous waste regulation. c1988. Includes index.
Source: OCLC

Federal Chemical Regulation: TSCA, EPCRA and the Pollution Prevention Act.
Author: Lewis, Cynthia A.
Publisher: Bureau of National Affairs, Washington, DC
Date: 1997
Pages: 551
Call No.: KF3958.L49 1997
OCLC No.: 36739565
LCCN: 97013480
ISBN: 1570180423 (hardcover)
Source: OCLC

Layman's Guide to the Toxic Substances Control Act.
Date: 1993
Report No.: EPA/745/K-93/004
Source: NCEPI, TSCA Hotline

Master Testing List.
Publisher: U.S. EPA, Office of Prevention, Pesticides and Toxic Substances, Office of Pollution Prevention and Toxics, Washington, DC
Date: December 1996
Pages: 19
Call No.: TP202.M37 1996
OCLC No.: 36129815
Source: OCLC

New Chemicals Program.
Date: 1993
Report No.: EPA/745/F-93/004
Source: NCEPI, TSCA Hotline

Process-Based Self-Assessment Tool for the Organic Chemical Industry.
Author: U.S. EPA, Washington, DC, Office of Enforcement and Compliance Assurance
Date: December 1997
Pages: 400
Report No.: EPA/305/B-97/002
Abstract: This guide is a resource on Federal environmental regulations for small-to-medium-sized organic chemical manufacturing facilities. This manual 1) provides a general approach for performing a multimedia self-assessment to evaluate compliance with environmental regulations, and 2) provides industry-specific process and regulatory information necessary for conducting an assessment at an organic chemical manufacturing facility. The general approach section describes the steps for planning, conducting, and following up a multimedia self-assessment. Industry-specific information is given to supplement the generic self-assessment approach. This document describes processes found throughout the chemical manufacturing industry and identifies potential releases from each process and associated environmental legislation. Additional regulatory requirements (such as applicability, exemptions, monitoring, record keeping, and reporting) potentially affecting organic chemical manufacturers are summarized by statute in the appendices.
Source: NCEPI, U.S. EPA web site (http://www.epa.gov)

Screening and Testing Chemicals in Commerce.
Author: Office of Technology Assessment, Washington, DC
Date: September 1995
Pages: 129
Report No.: OTA-BP-ENV-166
NTIS No.: PB96-107545INZ
Source: NTIS

Toxic Substances Control Act (TSCA) Awareness Manual.
Publisher: Chemical Manufacturers Association, Washington, DC
Date: 1994
Pages: 55
Call No.: KF3958.T675 1994
OCLC No.: 30419879
Notes: Originally published January 1991, revised February 1994
Source: OCLC

TSCA Confidential Business Information Security Manual.
Author: U.S. EPA, Washington, DC, Office of Pollution Prevention and Toxics
Date: 1993
Pages: 139
Report No.: EPA/749/R-95/004
Control No.: 317524899
NTIS No.: PB93-184844INZ
Abstract: The manual sets forth procedures for handling information claimed as confidential business information (CBI) under Section 14 of TSCA, which requires U.S. EPA to protect from public disclosure CBI obtained under TSCA and imposes criminal penalties for the knowing and willful unauthorized release or disclosure of such information. U.S. EPA has issued regulations (40 CFR Part 2) that implement TSCA's confidentiality provisions. The procedures in the manual supplement those set forth in TSCA and in 40 CFR Part 2.
Source: NTIS, NCEPI

Software

Test Guidelines from Office of Prevention, Pesticides, and Toxic Substances (OPPTS) Series (on CD-ROM) (Database).
Org: U.S. EPA, Office of Prevention, Pesticides, and Toxic Substances
NTIS No.: PB98-500010INC
Abstract: This CD-ROM contains the series of harmonized test guidelines that have been developed by the U.S. EPA for testing pesticides and toxic substances, developing test data that must be submitted to the U.S. EPA for review under TSCA (15 U.S.C. 2601) and FIFRA (7 U.S.C. 136, et seq.) The purpose of harmonizing these guidelines into a single set is to minimize variations among test procedures that must be performed to meet the U.S. EPA data requirements. Also included on the CD-ROM is a bibliography of Pesticide Assessment Guidelines and their amendments available through NTIS. The CD-ROM contains issued OPPTS test guidelines and any subsequent updates.
Format: CD-ROM. Adobe Acrobat search engine included. WINDOWS 3.1, Windows NT 3.5 or later or Windows 95; 8 MB RAM recommended, 4 MB required. Mac version requires 68020 processor or greater with 4 MB RAM recommended and System 7.0 or greater; CD-ROM drive. 4.7 MB disk space. UNIX versions available for SUN SPARC station and HP Series 9000.
Source: NTIS

IMPORT/EXPORT

Documents

TSCA

General

Import/Export

Toxic Substances Control Act: A Guide for Chemical Importers/Exporters. An Overview.
Author: U.S. EPA, Washington, DC, Office of Toxic Substances
Date: 1993
Report No.: EPA/745/K-93/007
Abstract: The publication summarizes the requirements of sections 12(b), Exports, and 13, Imports, of the Toxic Substances Control Act (TSCA), and the rules and policies issued under these sections.
Source: NTIS, NCEPI

INSPECTION/COMPLIANCE

Documents

Case Proceedings Guidance Manual: Toxic Substances Control Act.
Publisher: U.S. EPA, Office of Compliance Monitoring, Washington, DC
Date: 1992
OCLC No.: 28564079
Source: OCLC

CERCLA Compliance with Other Laws Manual: Summary and Part 2. CAA, TSCA, and Other Statutes.
Author: U.S. EPA, Washington, DC, Office of Emergency and Remedial Response
Date: April 1990
Pages: 11
Control No.: 032026995
Stock No.: PB90-272550
Report No.: EPA/9234.2-07/FS
NTIS No.: PB90-272550INZ
Notes: See also PB90-272543.
Abstract: The fact sheet provides a guide to Chapters 2 and 3 of Part II of the 'CERCLA Compliance With Other Laws Manual.' The sixth in a series, this fact sheet focuses on CERCLA compliance with the Clean Air Act (CAA), the Toxic Substances Control Act (TSCA), and the Federal Insecticide, Fungicide, and Rodenticide Act. In addition, it discusses other statutes that set standards for radioactive wastes, mining wastes, and other resource protection statutes that are potential Applicable or Relevant and Appropriate Requirements (ARARs) for CERCLA actions.
Source: NTIS

Multi-Media Compliance Inspection Manual for Enforcement Programs in Air, Water, RCRA, CERCLA, TSCA & FIFRA. Fourth edition.
Author: U.S. EPA, Office of Enforcement and Compliance Monitoring, Washington, DC
Date: 1989
Call No.: KF3775.M8 1989
OCLC No.: 20533402
Source: OCLC

TSCA Compliance Handbook.
Author: Griffin, Ginger L.
Publisher: J. Wiley & Sons, New York, NY
Edition: 3rd ed.
Date: 1996
Pages: 368
Call No.: KF3958.G75 1996
OCLC No.: 34546659
LCCN: 96017529
ISBN: 0471162272 (acid-free paper)
Source: OCLC

TSCA
Inspection/ Compliance

TSCA Landfill Inspection Guidance Manual.
Author: U.S. EPA, Region V, Pesticides and Toxic Substances Branch, Chicago, IL
Date: March 1990
Pages: 93
Call No.: TD795.7 U561
OCLC No.: 22730791
Source: OCLC

TSCA Inspection Guidance Office of Compliance Monitoring.
Author: U.S. EPA, Office of Compliance Monitoring
Date: November 1993
Call No.: KF3958.A31 T69 1993
OCLC No.: 29892208
ISBN: 0865873585
Source: OCLC

INVENTORY

Documents

Sampling for Organic Chemicals in Air.
Author: U.S. EPA, Research Triangle Park, NC, Atmospheric Research and Exposure Assessment Lab
Date: 1994
Pages: 130
NTIS No.: PB95-128112
Report No.: EPA/600/A-94/183
Abstract: More than 90% of the 75,000 chemicals listed in U.S. EPA's Toxic Substances Control Act Chemical Substance Inventory and 88% of the 189 Hazardous Air Pollutants (HAPs) named in the Clean Air Act Amendments of 1990 are organic. The various methods of sampling airborne organics are reviewed and discussed here and 275 literature citations are given. Special sampling difficulties associated with chemical behavior in the atmosphere, such as reactivity and phase distribution, are discussed. The pros and cons of sampling devices, sorbents, and other sampling parameters are presented in the context of chemical type, with special application to the Clean Air Act HAPs. The elements of good quality assurance practice in organic chemical air sampling are also discussed.
Source: NTIS

Software

Toxic Substances Control Act (TSCA): Searchable Database on CD-ROM, January 1997. TSCA Chemical Substances Inventory: Revised Inventory Synonym and Preferred Name File and SARA Title III (on CD-ROM).

NEW

TSCA Inventory

Author: U.S. EPA, Washington, DC, Office of Pollution, Prevention, and Toxics
Date: 1997
NTIS No.: PB97-501423
Control No.: 712601190
Stock No.: PB97-501423 (CD-ROM)
PB97-501431 (ASCII text on disk)
PB97-501456 (datafile on mag. tape)
CD Notes: Windows version requires 386 or greater processor with 4 MB RAM and Windows 3.1 or greater. Mac version requires 68020 processor or greater with 2 MB RAM and System 7.0 or greater. 'Adobe Acrobat Reader with Search for CD' software is provided. Supersedes PB96-502596, PB96-501267, and PB96-501259.
Abstract: The TSCA CD-ROM assists in identifying chemical substances and cross-referencing to their regulatory names to help companies comply with Community Right To Know requirements, SARA reporting and OSHA. This easy-to-use CD-ROM lists the latest public information on more than 62,000 chemicals or chemical substances manufactured or imported into the U.S. for commercial purposes as defined under TSCA. The TSCA Chemical Substances Inventory provides a link between chemicals in the workplace and regulatory requirements. The data provided includes the Chemical Abstracts Service (CAS) Registry Number, Preferred CA Index Name, molecular formula, and the chemical names reported by the submitters of the data. It also contains U.S. EPA codes to identify those substances that are either subject of a U.S. EPA rule or order promulgated under TSCA or that are exempt from TSCA inventory update rule reporting, as well as, the Preferred Chemical Abstracts Index Name, CERCLA RQ, RCRA code and more. Two other files are provided: the 'Premanufacture Notification (PMN) Number to EPA Accession Number Link' file as well as and SARA Title III Consolidated Chemical List data. These lists should be used as a reference tool, not as a definitive source of compliance information. The CD-ROM provides an easy, electronic lookup to identify chemical substances and also assists in identifying chemical substances and cross-referencing to their regulatory names. It has an intuitive interface for search, display and output using Adobe Acrobat CD search software: (1) Search on Chemical Abstracts Service (CAS) name, CAS number, common name, molecular formula or the chemical names re-ported by the submitters of the data; and (2) Print or cut and paste into a word processor information of interest.
Source: NTIS

PREMANUFACTURE NOTIFICATION (PMN)

Documents

Chemistry Assistance Manual for Premanufacture Notification Submitters.
Alt. Title: Premanufacture Notification: Chemistry Assistance for Submitters.
Author: DeVito, Stephen; Farris, Carol
Publisher: John Wiley and Sons
Date: March 1997
Report No.: EPA/744/R-97/003
ISDN: 0-471-19151-5
Abstract: This manual is designed to assist people involved with the design and development of new chemical substances with certain technical aspects of submitting Premanufacture Notices (PMN's) to U.S. EPA under TSCA. It is hoped that, with this information, submitters will be able to develop more physicochemical property data and other technical information for new substances so that the Agency's ability to perform accurate risk assessments will increase.
Contact: TSCA Hotline [(202) 554-1404 or (800) 225-5945]
Download: www.epa.gov/opptintr/chem-pmn/index.html

Software

Toxic Substances Control Act (TSCA)-PMN File: ASCII Text Data. TSCA Chemical Substances Inventory: PMN Number to EPA Accession Number Link, January 1997 (for Microcomputers).
Author: U.S. EPA, Washington, DC, Office of Pollution, Prevention, and Toxics
Date: 1997
Control No.: 712601210
NTIS No.: PB97-501449
Notes: This product contains text only. Customers must provide their own search and retrieval software. Supersedes PB96-503248 and PB96-501267. See also PB97-501423. The datafile is on one 3 1/2 inch DOS diskette, 1.44M high density. File format: ASCII text.
Abstract: The PMN Number to EPA Accession Number Link Diskette provides a cross-reference of these numbers for commenced PMNs on the confidential portion of the TSCA Master Inventory File. Neither this cross-reference nor the additional information included is TSCA Confidential Business Information. Provided on the diskette for each confidential commenced PMN are the PMN Case Number, EPA Accession Number, Generic Name, and EPA special flags. The sequence of the file is in ascending PMN case Number order with 'P' case numbers sorted first, followed by 'Y' case numbers.
Source: NTIS

TSCA
PMN

SUBSTANTIAL RISK NOTIFICATION: SECTION 8(E)

Documents

Answers to Your Questions about the TSCA Section 8(E) Rule.
Date: 1993
Report No.: EPA/745/F-93/005
Source: NCEPI

TSCA 8(E) Reporting Guide {6/91}.
Date: June 1991
Report No.: EPA/745/K-91/100
Source: NCEPI

TSCA
Section 8(E)

ENVIRONMENTAL AUDITING SOURCES

GENERAL

Documents

ANSI/ISO 1400 Series: Environmental Management Systems and Environmental Audits.
Publisher: American Society for Testing & Materials, West Conshohocken, PA
Date: 1996
Report No.: ANSI/ISO 14001-1996, ANSI/ISO 14004-1996, ANSI/ISO 14010-1996, ANSI/ISO 14011-1996, ANSI/ISO 14012-1996
OCLC: 37142881
ISBN: 0803118333
Source: OCLC

Development of the ISO 14012 Standard on Environmental Auditor Qualifications, A U.S. Perspective.
Author: Schomer, Dawne; Cooley, Cynthia
Date: 1995
Pages: 16
Report No.: 95-FA159.01
OCLC: 34693959
Abstract: For presentation at Air & Waste Management Association's 88th Annual Meeting & Exhibition, San Antonio, TX, June 18-23, 1995
Source: OCLC

Environmental Auditing - A Useful Tool that Can Improve Environmental Performance and Reduce Costs.
Author: General Accounting Office, Resources, Community and Economic Development Div, Washington, DC
Date: April 1995
Pages: 95
NTIS No.: AD-A296 370/0INZ
Report No.: GAO/RCED-95-37
Source: NTIS

Environmental Auditing-Principles and General Practices (NSF Standard).
Author: NSF International, Ann Arbor, MI
Date: March 1995
Pages: 36
NTIS No.: NSF 110-1995INR
Abstract: This standard establishes the minimum requirements of a comprehensive environmental management system (EMS) and is intended to help organizations focus proactively on improving environmental performance and environmental stewardship. This document also contains guidance for developing an EMS or improving an existing one. Effective implementation of an EMS enhances an organization's ability to achieve and maintain compliance with relevant environmental laws and regulations.
Source: NTIS

EnviroSense
Common Sense Solutions to Environmental Problems

**** Reminder **** - For the most up-to-date information, check U.S. EPA's Enviroene web site, http://es.epa.gov, or check with a local technical assistance provider (see Appendix B).

To obtain the materials listed, see page 2.

EA TOC

General 95

Environmental Audit Program Design Guidelines for Federal Agencies.
Author: U.S. EPA Office of Enforcement and Compliance Assurance
Date: Spring 1997
Pages: 120
Report No.: EPA 300-B-96-011
Abstract: This document describes the components of a thorough environmental management program and informs the reader about the kinds of issues that arise and require addressing in environmental audits. This document is intended to be informative, not instructional, and should be used in conjunction with EPA's *Generic Protocol for Conducting Environmental Audits of Federal Facilities* in order to create and undertake an environmental auditing program.
Source: For hard copy with appendices, call U.S. EPA (202-564-2461) or download without appendices from http://es.epa.gov/oeca/fedfac/complian/complian.html

Environmental Management Systems and Environmental Auditing (ISO 14000).
Author: International Organization for Standardization
Publisher: ASTM, Philadelphia, PA
Date: 1995
Notes: Committee draft standard. ASTM publication control number 34-114000-65. Environmental auditing--Standards.
OCLC: 34634911
Source: OCLC

AUDIT
General

Generic Protocol for Conducting Environmental Audits of Federal Facilities. Volume 1, Phase 1 - Auditing for Compliance. Volume 2, Phases 2 and 3 - Auditing Environmental Management Systems. Third Edition.
Author: U.S. EPA, Office of Federal Facilities Enforcement, Washington, DC
Date: December 1996
Pages: 1446
Report No.: EPA/300/B-96/012A and /012B
NTIS No.: PB97-171193INZ
Source: NTIS

Guidance Manual for EPA Chemical Safety Audit Team Members.
Author: Chemical Emergency Preparedness Program; U.S. EPA, Office of Solid Waste and Emergency Response
Date: 1990
OCLC No.: 26205111
Source: OCLC

ISO 14000 EMS Audit Handbook.
Author: Johnson, Gregory P.
Publisher: St. Lucie Press, Boca Raton, FL
Date: 1997 (1st ed.)
Pages: 316
OCLC: 37232155
ISBN: 1574440691
Source: OCLC

ISO 14010s--Environmental Auditing Tools and Techniques for Passing or Performing Environmental Audits.
Author: Kuhre, W. Lee
Publisher: Prentice Hall PTR, Upper Saddle River, NJ
Date: 1996
Pages: 440 + 1 computer disk (3 1/2 in.)
Notes: Requires Microsoft Word for Windows; WordPerfect; Excel.
OCLC: 33207752
LCCN: 95042737
ISBN: 0133802051
Source: OCLC

Multi-Media Investigations Guide.
Author: National Enforcement Investigations Center
Date: March 1992 (revised ed.)
Pages: 234
NTIS No.: PB92-161553
Report No.: EPA/300/9-89/003R
Abstract: The manual provides guidance, not required procedures, for multimedia compliance investigations in the early 1990s. The manual describes general activities and functions of multimedia investigations and provides information on special features of specific media and associated statutes. Because laws, regulations and procedures have changed since the manual's publication, it should not be used as a reference for current standards, but much of the information is still applicable.
Source: NTIS or download from http://es.epa.gov/oeca/mmmall.pdf

Practical Tools and Concepts for Environmental Audits and Assessments.
Author: U.S. EPA, Cincinnati, OH, Risk Reduction Engineering Lab
Date: July 1993
Pages: 9
NTIS No.: PB94-122611
Report No.: EPA/600/A-93/280
Abstract: This paper discusses the use of Environmental Audits (EA), Pollution Prevention Opportunity Assessments (PPOA), and Life Cycle Assessment (LCA) as management tools designed to identify and evaluate waste generating activities, determine how to best manage the waste stream, implement a waste management program, and measure environmental progress. While EA targets environmental compliance, PPOA targets the reduction or elimination of waste generation regardless of regulatory constraints. LCA may better be described as the foundation for proving pollution prevention solutions and the measurement of pollution prevention progress.
Source: NTIS

Process-Based Investigation Guide.
Author: U.S. EPA Office of Enforcement and Compliance Assurance
Date: March 1997
Pages: 51
Report No.: EPA/330/9-97/001
Abstract: This document introduces and defines the concept of "process-based" investigations, discusses the usefulness of this "tool", and provides a "road map" to planning and conducting these types of investigations.
Source: Download from http://es.epa.gov/oeca/oceft/neic/probased.pdf

AUDIT
General

Training

Chemical Safety Audits (165.19) (Training Manual).
Author: U.S. EPA, Office of Emergency and Remedial Response, Washington, DC
Date: 1995
Pages: 741
Report No.: EPA/540/R-95/137; OSWER-9285.9-19C
NTIS No.: PB96-963204
Abstract: This course, which is presented in cooperation with the U.S. EPA's Office of Chemical Emergency Preparedness Planning, introduces safety auditing for highly hazardous chemicals. It is based on U.S. EPA's Chemical Safety Audit program, the Occupational Safety and Health Administration's (OSHA) Process Safety Management (29 CFR 1910.119), and U.S. EPA's Risk Management Programs for Chemical Accidental Release Prevention (40 CFR Part 68). The course covers basic chemical systems and processes, chemical process hazards, process safety systems, process safety management, emergency response, chemical hazard mitigation, chemical hazard evaluation, hazard evaluation techniques, and incident (hazards material release) investigation. Interviewing techniques, computer modeling, and report writing are also covered.
Source: NTIS

AUDIT

General

ENVIRONMENTAL MANAGEMENT SYSTEM SOURCES

GENERAL

On-line Access

European Union Eco Management and Audit Scheme.
URL: http://www.emas.lu/
Abstract: The Eco-Management and Audit Scheme (EMAS) is a voluntary regulation in which sites may choose to participate. The overall objective of the scheme is to promote continuous environmental performance improvements of industrial activities by committing sites to evaluate and improve their environmental performance and provide relevant information to the public. The scheme does not replace existing community or national environmental legislation or technical standards nor does it, in any way, remove a company's responsibility to fulfil all its legal obligations under such legislation or standards. Participation in the scheme is site-based and open to companies operating industrial activities in European Union Member States.

Exploring ISO 14000
URL: http://www.mgmt14k.com
Abstract: A primer to the ISO 14000 standard, this site is produced by Management Alliances Inc. Including features like FAQs, full text articles and the popular ISO 14001 pizza, the site covers ISO 14000 in depth and touches on ISO 9000 as well.

International Organization on Standardization (ISO)
URL: http://www.iso.ch/meme/TC207.html
Abstract: The official organization for the development of standards, this is the direct source for information on ISO 14001 and other international standard documentation. This URL points to the actual provisions of the ISO 14001 standard as directed by the Technical Committee 207, its administering body.

EnviroSense
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**** Reminder **** - For the most up-to-date information, check U.S. EPA's Enviroene web site, http://es.epa.gov, or check with a local technical assistance provider (see Appendix B).

To obtain the materials listed, see page 2.

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ISO 14000 Infocenter
URL: http://www.ISO14000.com
Abstract: This site is produced by the Environmental Industry Web Site (http://www.enviroindustry.com).

National Association for Environmental Management (NAEM)
URL: http://www.naem.org
Abstract: NAEM is a non-profit educational association composed of professional private and public sector environmental managers. NAEM is the leading association dedicated to advancing the principles and profession of environmental management. The association's three principle objectives are to facilitate information sharing among NAEM members, provide professional development tools and opportunities, and advance and promote recognition of the environmental management profession.

National Institute of Standards and Technology (NIST)
URL: http://ts.nist.gov/ts/htdocs/210/environ.html
Abstract: The NIST promotes U.S. economic growth by working with industry to develop and apply technology, measurements, and standards. This site offers information on the ISO 14000 and its impact on American business.

Stoller ISO 14000 Information
URL: http://www.carlsbadnm.com/ttctrain/index.htm
Abstract: A facet of the S.M. Stoller Corporation's Web site, this page presents information about their training programs for ISO 14000 and 14001 for business and industry. The site includes an overview and description, full text articles, and a visual roadmap.

U.S. EPA Standards Network
URL: http://es.epa.gov/partners/iso/iso.html
Abstract: Produced as part of the Enviroene program, this site offers an insight into the ISO standards from the U.S. EPA. The site includes basic information on the ISO standards and their impact in the US. Also included are contacts for more information but there are no links to sources outside the U.S. EPA from this site.

Electronic Mailing Lists

ISO14000@quality.org
Abstract: This list is designed for the discussion of the ISO 14000 certification guidelines for Environmental and related industries. This list also has a digest version, which you can subscribe to separately. This will permit you to receive all the postings of the list, but in 25K "chunks" rather than one at a time. This is particularly useful to those who want to review and respond offline or who may not need to get every message immediately. The digest version will also be archived at QUALITY.ORG, accessible by gopher, FTP or WWW. Note that you can subscribe to either or both lists.

To subscribe to the ISO14000 list (the "one-message-at-a-time" list), send an email message to majordomo@quality.org *with the following text ONLY in the BODY of the message: subscribe iso14000*

To subscribe to the digest version, send a message to majordomo@quality.org *with ONLY the following text in the BODY of the message: subscribe iso14000-digest*

Documents

ANSI/ISO 1400 Series: Environmental Management Systems and Environmental Audits.
Publisher: American Society for Testing & Materials, West Conshohocken, PA
Date: 1996
Report No.: ANSI/ISO 14001-1996, ANSI/ISO 14004-1996, ANSI/ISO 14010-1996, ANSI/ISO 14011-1996, ANSI/ISO 14012-1996
OCLC: 37142881
ISBN: 0803118333
Source: OCLC

EMS
General

Center for Environmental Management, Tufts University.
Author: Tufts Univ., Medford, MA, Center for Environmental Management; U.S. EPA, Washington, DC, Center for Environmental Management, Tufts University
Date: 1995
Pages: 11
NTIS No.: PB95-233615
Abstract: The Center for Environmental Management (CEM) at Tufts University is a multidisciplinary research, education and policy center that focuses on environmental management and pollution prevention. CEM also acts as a neutral and independent forum where citizens and representatives from government, academia, industry and public of environmental interest groups can meet to discuss and resolve critical policy issues. The center's activities are performed by a staff of scientists, engineers, policy analysts, and numerous faculty from the many schools and resource centers at Tufts. Additionally, CEM sponsors conferences and workshops to unite diverse groups and to generate discussion and development of strategies for problems ranging from waste reduction to household hazardous

wastes to international environmental management.
Source: NTIS

Compliance-Focused Environmental Management System-Enforcement Agreement Guidance.
Author: National Enforcement Investigations Center
Date: August 1997
Pages: 15
Report No.: EPA-330/9-97/002
Abstract: This document presents key elements for a compliance-focused EMS model and how they may be incorporated into a settlement agreement. The compliance-focused EMS model described here is to supplement, not replace, EMS models developed by voluntary consensus standards bodies, such as the ISO 14001 EMS standard.
Source: Download from http://es.epa.gov/oeca/oceft/neic/12elmen.pdf

Environmental Management Systems: General Guidelines on Principles, Systems and Supporting Techniques.
Publisher: International Organization for Standardization, Geneva
Date: 1996
Pages: 31
Notes: ISO 14004, first edition 1996-09-01. Reference No. ISO 14004: 1996(E)
OCLC: 35698363
Abstract: ISO 14000 series standards; industrial management-environmental aspects-standards; environmental management-standards.
Source: OCLC

Environmental Management Systems Primer for Federal Facilities.
Author: U.S. DOE Office of Environmental Policy and Assistance; U.S. EPA Federal Facilities Enforcement Office
Date: 1998
Pages: 71
Report No.: DOE/EH-0573
Abstract: This guide is designed to help federal managers understand EMSs and how one can help them improve environmental management at their facilities. This primer outlines the elements of an EMS, offers tips on how to make the case for an EMS to upper management, explains how an EMS will benefit an organization, and places EMSs in the context of regulations, compliance issues, pollution prevention, and other government programs.
Source: Download from http://es.epa.gov/oeca/fedfac/emsprimer.pdf or fax (202) 501-0069

Inside ISO 14000: The Competitive Advantage of Environmental Management.
Author: Sayre, Don
Publisher: St. Lucie Press, Delray Beach, FL
Date: 1996
Pages: 232
OCLC: 34561178
ISBN: 1574440284
Abstract: ISO 14000 series standards; industrial management-environmental aspects; environmental protection-standards.
Source: OCLC

ISO 14000: A Guide to the New Environmental Management Standards.
Author: Tibor, Tom; Feldman, Ira
Publisher: Irwin Professional Pub., Chicago, IL; McGraw-Hill
Date: 1996
Pages: 237
OCLC: 33079744
LCCN: 95037280 //r962
ISBN: 0786305231
Abstract: This book is a comprehensive introduction to the ISO 14000 series for companies that want to know what ISO 14000 is, how it will affect them, and what they can do about it. It traces the development of the standards and describes each standard under development. It also discusses some of the international and domestic implications of the standards, the probable registration process and other relevant environmental management standards and regulations.
Source: OCLC

ISO 14000 and ISO 9000.
Author: Rothery, Brian
Publisher: Gower, Brookfield, VT
Date: 1995
Pages: 278
OCLC: 32746202
LCCN: 95022035 //r96
ISBN: 0566076489
Abstract: ISO 9000 Series Standards, ISO 14000 Series Standards, Environmental Protection--Standards.
Source: OCLC

ISO 14000 Guide: The New International Environmental Management Standards.
Author: Cascio, Joseph; Woodside, Gayle; Mitchell, Philip
Publisher: McGraw-Hill, New York, NY
Date: 1996
Pages: 221
OCLC: 34046274
LCCN: 96004168
ISBN: 0070116253
Source: OCLC

ISO 14000 Handbook.
Author: Cascio, Joseph
Publisher: CEEM Information Services, Fairfax, VA
Date: 1996
Pages: 764
Notes: Includes actual text of ISO/DIS 14001 and 14004.
OCLC: 34790364
ISBN: 1883337054
Abstract: ISO 14000 Series Standards--Handbooks, manuals, etc; Environmental protection--Standards--Handbooks, manuals, etc; Production management--Environmental aspects--Handbooks, manuals, etc; Industrial management--Environmental aspects--Handbooks, manuals, etc.
Source: OCLC

EMS
General

ISO 14000: International Environmental Management Standards.
Publisher: U.S. EPA, Office of Pollution Prevention and Toxics, Washington, DC
Date: May 1995
Pages: 4
Report No.: EPA/742/F-95/006
OCLC: 34688499
Abstract: U.S. EPA standards network fact sheet.
Source: OCLC

ISO 14000 Resource Directory.
Publisher: U.S. EPA, Office of Research and Development, Washington, DC
Date: October 1997
Pages: 82
Report No.: EPA/625/R-97/003
Abstract: This directory provides information about current initiatives related to the developing ISO 14000 series of environmental standards. Hundreds of government (federal and state) and nonprofit organizations submitted information for inclusion in this directory. This document is intended to facilitate communication among the many groups or individuals examining or using the standards.

ISO 14000: Understanding the Environmental Standards.
Author: Von Zharen, W.M.
Publisher: Government Institutes, Rockville, MD
Date: 1996
Pages: 213
OCLC: 33983223
LCCN: 95046966
ISBN: 0865875013
Source: OCLC

ISO 14001:1996. Environmental Management Systems -- Specification with Guidance for Use.
Author: International Organization for Standardization
Publisher: International Organization for Standardization, Geneva
Date: 1996
Pages: 14
OCLC: 35663438
Abstract: The ISO 14001 standard; industrial management-environmental aspects-standards; environmental management-standards.
Source: OCLC

ISO 14001 Environmental Management System Self-Assessment Checklist.
Author: Global Environmental Management Initiative (GEMI)
Pages: 54
Date: 1996
Item No.: ISO-111
Abstract: This checklist is based on the ISO 14001 standard and allows for a rapid self-assessment of an organization or facility to determine how closely existing management practices and procedures correspond to the elements of the standard. In addition to a brief guide to self-scoring, a fuller description of what is required by the standard's criteria is included in the appendix.
Source: Contact GEMI at 202-296-7449

Moving Ahead with ISO 14000: Improving Environmental Management and Advancing Sustainable Development.
Author: Marcus, Phillip A.; Willig, John T.
Publisher: Wiley, New York, NY
Date: 1997
Pages: 302
OCLC: 35521678
LCCN: 96041848
ISBN: 0471168777 (cloth: alk. paper)
Abstract: ISO 14000 series standards; manufacturing industries-environmental aspects; sustainable development
Source: OCLC

Responsible Care® Management Systems Verification Protocol.
Publisher: Chemical Manufacturers Association
Date: April 1996
Pages: 8
Abstract: The protocol guides the verification team and the participating company through a series of panel interviews, site walkabouts and contacts with a company's external stakeholders to determine the existence of management systems in (1) Policy and Leadership; (2) Planning; (3) Implementation, Operation and Accountability; (4) Performance Measurement and Corrective Action; and (5) Management Review and Reporting. Each of the protocol's five management systems includes a series of attributes that reflect the 106 elements of CMA's six Responsible Care® Codes of Management Practices. Each attribute includes specific questions for company personnel ranging from the CEO to operators on the shop floor.
Source: Contact CMA at 703-741-5306

Strategic Environmental Management Using TQEM and ISO 14000 for Competitive Advantage.
Author: Wever, Grace
Publisher: John Wiley and Sons, New York, NY
Date: 1996
Pages: 299 + 1 computer disk (3 1/2 in)
Notes: Requires IBM compatible PC, word processing and spreadsheet software.
OCLC: 34152801
LCCN: 95052787
ISBN: 047114746X (alk. paper)
Abstract: Industrial management--environmental aspects; total quality management; ISO 14000 series standards; environmental management.
Source: OCLC

Total Quality Environmental Management: The Primer.
Publisher: Global Environmental Management Initiative (GEMI)
Date: 1993
Pages: 25
OCLC: TQE-101
Abstract: This document, written for corporate environmental managers, takes the reader through basic definitions of TQEM, how to implement a TQEM program and measurements, and how to use them. Contains a glossy for quick reference.
Source: Contact GEMI at 202-296-7449

What is ISO 14000? Questions and Answers.
Author: Hemenway, Caroline G.
Publisher: CEEM Information Services, International Environmental Systems Update, Fairfax, VA
Date: 1995 (2nd ed.)
Pages: 44
OCLC: 34082015
ISBN: 1883337046
Abstract: Environmental policy--Standards; Environmental protection--Standards; Environmental auditing--Standards; Quality assurance--Standards; Quality control—Standards.
Source: OCLC

IMPLEMENTATION

Documents

Environmental Management Systems: An Implementation Guide for Small and Medium-Sized Organizations.
Author: U.S. EPA, Office of Wastewater Management, Washington, DC
Date: 1996
Pages: 156
Report No.: EPA/832/B-96/007
NTIS No.: PB97-141501
Abstract: This guide supports and facilitates the development of environmental management systems (EMS) among small and medium-sized organizations. The guide explains how to develop and implement an effective EMS using ISO 14001 standard as a model and how it can support an organization's mission and goals. Section 1 describes the many benefits of an EMS and how it can help an organization to compete and prosper in today's global marketplace. Section 2 summarizes the overall management systems concepts. Section 3 describes the overall process for building an EMS and provides recommendations for planning the overall EMS development effort. Section 4 provides detailed guidance on how an EMS should be designed and implemented. Section 5 describes the process for registering an EMS and selecting a registrar. Section 6 discusses other sources of assistance an organization can use to build and sustain its EMS. Appendices provide case studies, sample environmental policies, other sources of information, and information on EMS standards. In addition, the Tool Kit provides sample EMS procedures and other tools that an organization can tailor to fit its EMS needs.
Source: NTIS

EMS
Implement

Implementation Guide for the Code of Environmental Management Principles for Federal Agencies (CEMP).
Author: U.S. EPA Office of Enforcement and Compliance Assurance
Date: March 1997
Pages: 102
Report No.: EPA/315/B-97/001
Abstract: This document describes in detail the principles and supporting performance objectives of the CEMP, which was developed by EPA in response to Executive Order 12856. The Cemp was developed to encourage federal agencies to enhance their environmental performance through the creative use of EMS. The document provides guidance to assist agencies in understanding the scope of each principle and serves as a basis for planning. The document also contains a Self-Assessment Matrix that describes various stages of EMS evolution an organization may encounter in implementing the principles.
Source: Download from http://es.epa.gov/oeca/cemp/cemptoc.html

Implementing ISO 14000: A Practical, Comprehensive Guide to the ISO 14000 Environmental Management Standards.
Author: Tibor, Tom; Feldman, Ira
Publisher: Irwin Professional Pub., Chicago, IL
Date: 1997
Pages: 586
Notes: Includes bibliographic references and index.
OCLC: 35559250
LCCN: 96043763
ISBN: 0786310146
Source: OCLC

Implementing ISO 14001.
Author: Block, Marilyn R.
Publisher: ASQC Quality Press, Milwaukee, WI
Date: 1997
Pages: 247
OCLC: 35043929
LCCN: 96027181
ISBN: 0873893573
Abstract: ISO 14000 series standards; manufactures-environmental aspects.
Source: OCLC

ISO 14000: Issues & Implementation Guidelines for Responsible Environmental Management.

Author: Lamprecht, James L.
Publisher: American Management Association, New York, NY
Date: 1997
Pages: 238
OCLC: 35559158
LCCN: 96042575
ISBN: 0814403530
Abstract: Environmental management-US; environmental policy-US; industrial management-environmental aspects-US; environmental protection-US; ISO 14000 series standards.
Source: OCLC

ISO 14001 Implementation Guide: Creating an Integrated Management System.

Author: Jackson, Suzan L.
Publisher: Wiley, New York, NY
Date: 1997
Pages: 280
OCLC: 35172612
LCCN: 96031999
ISBN: 0471153605
Source: OCLC

EMS
Implement.

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POLLUTION PREVENTION SOURCES

Brief History of Pollution Prevention

1990 – Congress passed the Pollution Prevention Act (PPA), making pollution prevention (P2) the national environmental policy of the United States. It sets up an environmental hierarchy which favors P2 (source reduction) over recycling, treatment and disposal whenever feasible. It states:

- Pollution should be prevented or reduced at the source whenever feasible;
- Pollution that cannot be prevented should be recycled in an environmentally safe manner whenever feasible;
- Pollution that cannot be prevented or recycled should be treated in an environmentally safe manner whenever feasible; and
- Disposal or other release into the environment should be employed only as a last resort and should be conducted in an environmentally safe manner.

The PPA can be found in U.S. Code Title 32 Chapter 133, available on-line at http://www.epa.gov/opptintr/p2home/uscode.htm.

GENERAL

Hotlines/On-line Access

Enviroene
URL: http://es.epa.gov
Abstract: Enviroene, an integral part of the U.S. EPA's web site, attempts to provide a single repository for pollution prevention, compliance assurance, and enforcement information and data bases. Included are pollution prevention case studies, technologies, points of contact, environmental statutes, executive orders, regulations, and compliance and enforcement policies and guidelines. A major component of Enviroene is the data base umbrella architecture for "solvent alternatives." Enviroene information may be used to implement pollution prevention and solvent substitution programs, ensure compliance with environmental laws and regulations, solve enforcement cases, and develop research projects. Enviroene is funded by the U.S. EPA and the Department of Defense Strategic Environmental Research and Development Program.

National Pollution Prevention Roundtable (NPPR)
Hotline: (888) 745-7272
Tel: (202) 466-7272
Fax: (202) 466-7964
URL: http://www.p2.org
Abstract: NPPR is the largest membership organization in the United States devoted solely to pollution prevention (P2). The goal of NPPR is to stimulate information exchange by providing a conduit for members to discuss pollution prevention policies, regulatory integration issues and legislative developments. The NPPR web page keeps abreast of P2 news, such as conferences and congressional briefings, and provides assistance such as the P2 Yellow Pages which contain regional organizations that work with state and local governments, state and local government programs, Federal agencies, U.S. EPA P2 coordinators, non-profit groups, private sector organizations, and non-profit consultants who work on P2.

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**** Reminder **** - For the most up-to-date information, check U.S. EPA's Enviroene web site, http://es.epa.gov, or check with a local technical assistance provider (see Appendix B).

To obtain the materials listed, see page 2.

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P2
General

Pollution Prevention Information Clearinghouse (PPIC)
Hotline: (202) 260-1023
Fax: (202) 260-4659
E-mail: ppic@epamail.epa.gov
Hours: 8:30 a.m.-4:00 p.m. (EST) M-F, voice mail 24 hours/day
Abstract: PPIC is a free, nonregulatory service of the U.S. EPA dedicated to reducing or eliminating industrial pollutants through technology transfer, education, and public awareness. PPIC professionals answer questions, take orders for documents distributed by PPIC, refer callers to appropriate contacts, and distribute selected U.S. EPA documents, pamphlets, information packets, and factsheets on pollution prevention free of charge.

Electronic Mailing Lists

To subscribe to one of these electronic mailing lists (listservers), contact NPPR's Tyrone Foster at tyronefoster@compuserve.com.

P2ENERGY
P2ENERGY serves as a discussion forum for those who are interested in topics related to pollution prevention and energy efficiency. P2 ENERGY was a collaborative effort between NPPR and the U.S. EPA's Atmospheric Pollution Prevention Division.

P2REG
P2REG functions as an information sharing forum for environmental regulators with an interest in pollution prevention. The goal of P2REG is to foster information exchange by facilitating communication between regulators in the search for solutions to the many problems encountered while promoting pollution prevention in industry.

P2TECH
P2TECH functions as an information sharing forum for pollution prevention technical assistance providers. The goal of P2TECH is to foster information exchange by making it easier for technical assistance providers to communicate with each other in the search for solutions to the many problems encountered while providing technical assistance to industry. This listserver is administered by the University of Wisconsin Solid and Hazardous Waste Education Center.

P2Trainer
P2Trainer encourages the exchange of information about up to date pollution prevention educational programs and training opportunities related to cleaner technologies and products and pollution prevention. This listserver is a collaboration between the Roundtable, the National Environmental Training Association (NETA), and the European Roundtable on Cleaner Production and Cleaner Products.

Documents

U.S. EPA's Pollution Prevention R and D Approaches and Insights into the Chemical Process Industry.
Author: U.S. EPA, Cincinnati, OH Risk Reduction Engineering Lab
Date: August 1990
Pages: 18
NTIS No.: PB90-263989
Report No.: EPA/600/D-90/142
Abstract: To protect and improve the environment, chemical engineers face major research challenges such as designing optimal, less polluting chemical plants and processes, improving air quality through research, managing hazardous wastes responsibly, and developing multimedia approaches to reduce the chemical risk to human health and the environment. Since 1988, the U.S. EPA has established a pollution prevention R and D program to work with states, local governments, regional and federal agencies, and industry to encourage the identification, development and demonstration of pollution prevention technologies and methods to reduce wastes.
Source: NTIS

Industrial Pollution Prevention Handbook.
Author: Freeman, Harry
Publisher: McGraw-Hill, New York
Date: 1995
Pages: 935
OCLC No.: 31394243
LCCN No.: 95007979
ISBN No.: 0070221480
Source: OCLC

Industrial Pollution Prevention Opportunities for the 1990s.
Publisher: Risk Reduction Engineering Laboratory, Office of Research and Development, U.S. EPA, Cincinnati, OH
Date: August 1991
Pages: 68
OCLC No.: 24858848
Report No.: EPA/600/8-91/052
Abstract: A set of criteria was developed for the purpose of subjectively prioritizing industry segments for their pollution prevention potential and their opportunity for improvement. Seventeen high priority industries were selected from a Standard Industry Classification (SIC)-based list for investigation of the need or opportunity for waste reduction through source reduction and/or material recycle. In addition, the investigation identified a list of generic research or technological needs where industry contacts believed research could lead to waste minimization applicable to more than one industry. Since the start of the project, the U.S. EPA initiated the Industrial Toxics Project (also known as the 33/50) that identifies 17 high priority contaminants on the Toxics Releases Inventory (TRI) for voluntary reductions by the companies generating the waste.
Source: NTIS, OCLC

Key Non-Process Solvent Uses Targeted as Pollution Prevention Opportunities.
Author: Research Triangle Institute, Research Triangle Park, NC; U.S. EPA, Research Triangle Park, NC, Air and Energy Engineering Research Lab
Date: 1992
Pages: 8
NTIS No.: PB94-190881
Report No.: EPA-R-819541; EPA/600/A-94/120
Notes: Presented at the AIChE Summer National Meeting, Seattle, WA, August 15-18, 1993.
Abstract: The paper discusses a U.S. EPA assessment of non-process solvent emissions from 15 industrial and commercial source categories: automotive repair; bakeries; building renovation; chemical manufacturing; electrical equipment maintenance; florists; furniture repair and restoration; heating; air conditioning, and refrigeration service; machine shops; mold release agents; office products; quick print shops; road paving; roofing; and textile manufacturing. The products include both traditional and non-traditional consumer products, i.e., solvents used by industry and commercial operations that are not part of a manufacturing production line or incorporated into a product as part of the manufacturing process.
Source: NTIS

Opportunities for Pollution Prevention Research to Support the 33/50 Program.
Author: U.S. EPA, Office of Research and Development, Risk Reduction Engineering Laboratory, Cincinnati, OH
Date: October 1992
Pages: 113
OCLC No.: 27171102
Report No.: EPA/600/R-92/175
Abstract: The document compiles information on existing pollution prevention methods and identifies research needs. It helps define areas for research to increase application of existing methods and create new approaches for source reduction and recovery/recycling of 17 chemical groups targeted in the 33/50 Program. The emphasis is on source reduction, but recovery/recycling methods are also considered. A functional approach is used to identify and organize research areas for each of the 17 targeted chemical groups. The sources and production characteristics and rates are briefly summarized. Then pollution prevention opportunities and supporting research needs are discussed for the major industrial and consumer applications of the targeted chemical groups. The opportunities and research needs are presented in both narrative and tabular formats.
Source: OCLC

Pollution Prevention in Industrial Processes: The Role of Process Analytical Chemistry.
Pers. Author: Breen, Joseph J.; Dellarco, Michael
Corp. Author: American Chemical Society. Division of Environmental Chemistry, Washington, DC
Date: 1992
Pages: 316
OCLC No.: 26400993
ISBN No.: 0841224781
Notes: Developed from a symposium sponsored by the Division of Environmental Chemistry at the 201st national meeting of the American Chemical Society, Atlanta, Georgia, April 14-19, 1991. Includes bibliographical references and index.
Source: OCLC

Pollution Prevention News.
Author: U.S. EPA, Pollution Prevention Office
Frequency: Monthly
Date: February 1989
OCLC No.: 19840750
Report No.: EPA/742/N-94/005; EPA/742/N-93/004; EPA/742/N-93/003; EPA/741/N-92/001
Source: OCLC

Pollution Prevention Technology Handbook.
Author: Noyes, Robert
Publisher: Noyes Publications, Park Ridge, NJ
Date: 1993
Pages: 683
OCLC No.: 26586505
ISBN No.: 0815513119
Source: OCLC

Practical Tools and Concepts for Environmental Audits and Assessments.
Author: U.S. EPA, Cincinnati, OH Risk Reduction Engineering Lab
Date: July 1993
Pages: 9
NTIS No.: PB94-122611
Report No.: EPA/600/A-93/280
Abstract: The purpose of the paper is to discuss the use of Environmental Audits (EA), Pollution Prevention Opportunity Assessments (PPOA), and Life Cycle Assessment (LCA) as management tools designed to identify and evaluate waste generating activities, determine how to best manage the waste stream, implement a waste management program, and measure environmental progress. While each of these three tools is different in approach and purpose, each tool provides for an organized approach with essential elements. While EA targets environmental compliance, PPOA targets the reduction or elimination of waste generation regardless of regulatory constraints. LCA may better be described as the foundation for proving pollution prevention solutions and the measurement of pollution prevention progress.
Source: NTIS

Videos

Pollution Prevention: The Bottom Line.
Author: Coastal Video Communications Corp., Virginia Beach, VA
Date: 1990
Collation: 1 videocassette (24 min.)
OCLC No.: 22722430
Abstract: Discusses the costly problem of industrial waste and speaks to industrial managers and workers in practical terms they can understand. Designs to motivate and inspire all employees to identify and implement the opportunities for pollution prevention available in their own workplace.
Source: OCLC

CASE STUDIES

The following documents are a sampling of P2 case studies available. The best sources for case studies are Enviroene and the National Pollution Prevention Roundtable; see page 105 for contact information.

Documents

Abstracts of Pollution Prevention Case Study Sources.
Publisher: The Associates, Cambridge, MA
Date: 1994
Pages: 19
OCLC No.: 30576909
Report No.: EPA/742/B-94/001
Source: OCLC

Benign by Design Alternative Synthetic Design for Pollution Prevention.
Publisher: American Chemical Society, Washington, DC
Date: 1994
OCLC No.: 31328849
LCCN No.: 94038830 //r96
ISBN No.: 0841230536 (alk. paper)
Source: OCLC

Chemical Substitution for 1,1,1-Trichloroethane and Methanol in an Industrial Cleaning Operation.
Author: APS-Materials, Inc., Dayton, OH; U.S. EPA, Cincinnati, OH, Risk Reduction Engineering Lab
Publisher: 1992
Pages: 12
Notes: Pub. in Jnl. of Hazardous Materials, v29 n2 p179-188 Jan 92. See also PB84-128677 and PB88-239223.
NTIS No.: PB92-179886
Report No.: EPA/600/J-92/162
Abstract: Hazardous wastes are generated from cold solvent degreasing operations used in many industrial processes. The spent solvents are managed under Subtitle C of RCRA. With the land ban of spent solvents, disposal has become increasingly difficult. As a result, industries have begun investigating ways to avoid using RCRA listed cleaning solvents. The paper presents the results of a study evaluating the waste reduction/pollution prevention that can be achieved by substituting dilute limonene solutions for 1,1,1-trichloroethane (TCA) and methanol in the cleaning of orthopedic implants (e.g. metal knee and hip joint replacements). The paper describes the original cleaning process, the modifications made to the process in using the dilute limonene solution, and the sampling plan used in evaluating the effectiveness of the solution. The paper presents qualitative results of the sampling tests and an economic evaluation of plant modifications.
Source: NTIS

Pollution Prevention Assessment for a Manufacturer of Pharmaceuticals.
Publisher: U.S. EPA, National Risk Management Research Laboratory, Cincinnati, OH
Date: August 1995
Pages: 7
OCLC No.: 33630355
Report No.: EPA/600/S-95/030
Abstract: The WMAC team at Colorado State University performed an assessment at a plant that manufactures intermediates for pharmaceuticals and other chemicals. The team's report, detailing findings and recommendations, indicated that the waste streams generated in the greatest quantities are waste solvents that are reused on-site, incinerated as fuel in an on-site boiler, or shipped off-site for disposal. The greatest cost saving could be achieved by reusing additional amounts of methylene chloride in the plant.
Source: NTIS, OCLC

Pollution Prevention Case Studies Compendium.
Publisher: U.S. EPA, Risk Reduction Engineering Laboratory, Office of Research and Development, Cincinnati, OH
Date: April 1992
Pages: 110
OCLC No.: 25969916
Report No.: EPA/600/R-92/046
Abstract: This compilation of summaries of pollution prevention demonstrations, assessments and research projects conducted with the Pollution Prevention Research Branch highlights four programs: The Waste Reduction Innovative Technology Evaluations (WRITE) Program; The Waste Reduction Evaluations at Federal Sites (WREAFS) Program, The Waste Minimization Assessments Program; and The University-Based Assessments Program. An overview of each program is provided at the beginning of each section of the compendium. The case studies are cross-referenced according to key words in an index at the end of the compendium. The Pollution Prevention Research Branch personnel roster is listed to facilitate contacting the U.S. EPA Project Officer. Information is also provided on availability of full reports and the U.S. EPA Project Officer who conducted the research. The authors hope that the compendium will facilitate the development and adoption of pollution prevention techniques throughout the United States and other countries.
Source: NTIS, OCLC

Pollution Prevention Case Studies Compendium. 2nd Edition.
Author: U.S. EPA, Cincinnati, OH, Risk Reduction Engineering Lab
Date: March 1995
Pages: 64
Notes: See also PB92-180165 and PB92-216985.
Control No.: 510419977
NTIS No.: PB95-182895
Report No.: EPA/600/R-95/036
Abstract: The report is a second collection of summarizes of pollution prevention demonstrations, assessments, and research projects conducted by the Pollution Prevention Research Branch. The Branch is charged with defining, evaluating, and advancing the technology for the implementation of a national pollution prevention program. It also provides technical assistance to other sections of U.S. EPA for the purpose of reducing or eliminating pollution hazards. The information contained here will serve as a reference work and technology transfer vehicle to disseminate research results and promote the implementation of pollution prevention activities.
Source: NTIS

Pollution Prevention Survey of the Organic Chemical Manufacturing Industry.
Author: Fitzpatrick, Marjorie J.
Publisher: JACA Corp., Ft. Washington, PA
Date: 1993
OCLC No.: 30616631
Report No.: 68-D2-0068
Source: OCLC

Summary Of Pollution Prevention Case Studies With Economic Data (by SIC Codes).
Author: U.S. EPA, Office of Pollution Prevention and Toxics, Cambridge, MA
Date: January 1994
OCLC No.: 30577013
Report No.: EPA/742/S-94/001
Source: OCLC

U.S. EPA's Pollution Prevention R and D Results: Practical Tools For the Trade.
Author: U.S. EPA, Cincinnati, OH, Risk Reduction Engineering Lab
Date: October 1993
Pages: 18
NTIS No.: PB94-122520
Report No.: EPA/600/A-93/279
Abstract: The purpose of this presentation is to share a number of the results from several years of researching engineering solutions to multi-media problems, building a sound scientific foundation to support pollution prevention (P2) principles, and developing and demonstrating pollution prevention technologies, tools, and techniques. The 'tools of the trade' for pollution prevention are the research reports that provide results of technology development, the case studies and demonstrations of P2 technologies, and the technical guides and manuals for conducting P2 activities.
Source: NTIS

Wash Solvent Reuse in Paint Production.
Author: U.S. EPA, Cincinnati, OH, Risk Reduction Engineering Lab
Date: April 1994
Pages: 44
NTIS No.: PB94-161130
Report No.: EPA/600/R-94/063
Abstract: The project evaluated wash solvent recovery technology and its effect on production of subsequent batches of solvent-borne paint. The product quality, waste reduction/pollution prevention, and economic impacts of this technology change were examined. Two batches of a solvent-borne alkyd house paint were prepared -- one batch made with 100%-new solvent and the other with 30%-wash solvent--and sampled for laboratory analysis.
Source: NTIS

Waste Minimization Assessment for a Manufacturer of Chemicals.
Author: University City Science Center, Philadelphia, PA; U.S. EPA, Cincinnati, OH, Risk Reduction Engineering Lab
Date: May 1992
Pages: 10
NTIS No.: PB92-203595
Report No.: EPA-R-814903; EPA/600/S-92/004
Abstract: The Waste Minimization Assessment Center (WMAC) team at the University of Tennessee performed an assessment at a plant manufacturing acrylic emulsions, low molecular weight resins, herbicides, and specialty chemicals -approximately 300 million lb/yr. In general, monomers, additives, activators, and catalysts are metered and mixed in tanks then pumped sequentially into reactor vessels. Once the product is formed, the solution is pumped into a blend tank where more chemicals, such as binders, emulsifiers, and thickeners, are added. The team's report recommendations indicated that the majority of waste was generated in the waste water treatment system and that the greatest savings could be obtained by installing a natural gas-fired dry-off oven in the waste water treatment system to reduce (by 81%) the amount of sludge removed to the landfill.
Source: NTIS

Waste Reduction Activities and Options for a Manufacturer of Fine Chemicals Using Batch Processes.
Author: New Jersey Inst. of Tech., Newark; U.S. EPA, Cincinnati, OH, Risk Reduction Engineering Lab
Date: July 1992
Pages: 6
NTIS No.: PB93-126316
Report No.: EPA-R-815165; EPA/600/S-92/054
Abstract: One of 30 sites chosen for a waste minimization assessment for a U.S. EPA/NJDEPE project was a facility that manufactures both oil-based and water-based paints for general purpose use. The paint is produced by mixing solvent, pigment, and other ingredients, all of which are purchased from vendors. The facility already practices many pollution prevention concepts. A site visit identified waste minimization opportunities, including improved scheduling techniques, reuse of rinses, and formulation of residues into other products. Implementation of the identified waste minimization opportunities was not part of the program. Percent waste reduction, net annual savings, implementation costs and payback periods were estimated.
Source: NTIS

IMPLEMENTATION GUIDES

Documents

Encouraging the Use of Pollution Prevention in Enforcement Settlements: A Handbook for EPA Regions.
Author: U.S. EPA, Office of Enforcement and Compliance Assurance
Date: May 1995
Pages: 80
NTIS No.: PB95-236295
OCLC No.: 33037261
Report No.: EPA/300/R-95/005
Abstract: The purpose of this handbook is to motivate interested agency personnel to broaden the use of pollution prevention as the means of correcting violations (i.e., injunctive relief) and as Supplementary Environmental Projects (SEPs), i.e., pollution prevention in exchange for some degree of penalty reduction. Section II reviews the concepts of pollution prevention, technology innovation, and diffusion. Section III contains a discussion of the role of pollution prevention in the agency's enforcement program. Section IV contains suggested approaches for recognizing and creating the potential for pollution prevention conditions as injunctive relief or as SEPs. A summary of ten case studies of enforcement settlements containing pollution prevention conditions, case study commentary and analysis is presented in Appendix A.
Source: NTIS, OCLC

Facility Pollution Prevention Guide.
Author: U.S. EPA, Cincinnati, OH, Risk Reduction Engineering Lab
Date: May 1992
Pages: 154
NTIS No.: PB92-213206
Report No.: EPA/600/R-92/088
NEIS No.: 219
Abstract: This guide is meant for those who are interested in and responsible for pollution prevention in industrial or service facilities. It summarizes the benefits of a company-wide pollution prevention program and suggests ways to incorporate pollution prevention in company policies and practices. The Guide describes how to establish a company-wide pollution prevention program. It outlines procedures for conducting a preliminary assessment to identify opportunities for waste reduction or elimination. Then, it describes how to use the results of the preassessment to prioritize areas for detailed assessment, how to use the detailed assessment to develop pollution prevention options, and how to implement those options that withstand feasibility analysis. Methods of evaluating, adjusting, and maintaining the program are described. Later chapters deal with cost analysis for pollution prevention projects and with the roles of product design and energy conservation in pollution prevention. Appendices include assessment worksheets, sources of additional information, examples of evaluative methods, and a glossary.
Source: NTIS, OCLC, NEIS

Guides to Pollution Prevention: The Paint Manufacturing Industry.
Author: Center for Environmental Research Information (U.S.); Risk Reduction Engineering Laboratory (U.S.)
Publisher: U.S. EPA, Cincinnati, Ohio
Date: January 1990
Pages: 74
OCLC No.: 25425889
Report No.: EPA/625/7-90/005
Abstract: The guide provides an overview of the paint manufacturing processes and operations that generate waste and presents options for minimizing the waste generation through source reduction or recycling, which in turn reduce raw material needs, disposal costs, and liabilities associated with hazardous waste disposal.
Source: NTIS, OCLC

Guides to Pollution Prevention: The Pharmaceutical Industry.
Publisher: Risk Reduction Engineering Laboratory and Center for Environmental and Research Information, Office of Research and Development, U.S. EPA, Cincinnati, OH
Date: October 1991
Pages: 82
OCLC No.: 24838829
Report No.: EPA/625/7-91/017
Abstract: Pharmaceutical manufacturers generate a variety of wastes during manufacturing,

maintenance, and housekeeping operations which can be reduced or minimized through source reduction and recycling. Suggestions include improvements to operational practices, solvent recycling and implementing good materials management and housekeeping practices. The guide includes a set of worksheets which take the user step-by-step through an analysis of the on-site waste generating operations and the possibilities for minimizing each waste. The guide and its worksheets would also be instructive to consultants serving the pharmaceutical manufacturing industry and government agencies who regulate waste streams generated from these firms.
Source: OCLC

Guides to Pollution Prevention: The Pesticide Formulating Industry.
Author: U.S. EPA, Cincinnati, OH, Risk Reduction Engineering Lab
Date: February 1990
Pages: 61
NTIS No.: PB90-192790
Report No.: EPA/625/7-90/004
Abstract: Pesticide formulating facilities generate wastes during such operations as decontamination of mixing and storage equipment, housekeeping, and laboratory testing for quality assurance. The wastes generated are: containers with leftover raw materials, pesticide dust and scrubber water from air pollution control equipment, volatile organic compounds, off-specification products and laboratory analysis wastes, spills, waste sands or clays, waste rinse water and solvent, laundry wastewater, and stormwater run-off contaminated with pesticides. Reducing the generation of these wastes at the source, or recycling the wastes on- or off-site, will benefit pesticide manufacturers by reducing raw material needs, reducing disposal costs, and lowering the liabilities associated with hazardous waste disposal.
Source: NTIS

Improving Performance in the Chemical Industry: 14 Steps toward Pollution Prevention.
Publisher: Chemical Manufacturers Association (CMA), Washington, DC
Date: 1992
Pages: 22
OCLC No.: 32732741
Source: OCLC

Introduction to Pollution Prevention for NPDES Permit Writers.
Author: U.S. EPA, Office of Pollution Prevention and Toxics, Washington, DC
Date: June 1991
OCLC No.: 32882830
Source: OCLC

Pollution Prevention: A Guide to Program Implementation.
Publisher: Illinois Hazardous Waste Research and Information Center, Champaign, IL
Date: 1992
OCLC No.: 27996060
Source: OCLC

Pollution Prevention: A Practical Guide for State and Local Government.
Author: Wigglesworth, David T.
Publisher: Lewis Publishers, Boca Raton
Date: 1993
Pages: 200
OCLC No.: 27429274
ISBN No.: 087371654X
Source: OCLC

Pollution Prevention for Chemical Processes: A Handbook with Solved Problems from the Refining and Chemical Processing Industries.
Pers. Author: Allen, David T.; Rosselot, Kirsten S.
Corp. Author: Illinois. Hazardous Waste Research and Information Center
Date: 1994
OCLC No.: 31121183
Source: OCLC, NEIS

Pollution Prevention Guidance Manual for the Dye Manufacturing Industry.
Author: U.S. EPA, Pollution Prevention Office, Washington, DC
Date: 1991
Pages: 150
NTIS No.: PB95-237285
OCLC No.: 25538235
Abstract: The U.S. EPA's multimedia pollution prevention projects meet our Nation's environmental goals and create financial benefits and reduced liabilities. In conjunction with U.S. EPA, the members of the Ecological and Toxicological Association of the Dyestuffs

Manufacturing Industry (ETAD) have developed a pollution prevention program to record their past pollution prevention achievements, further reduce waste generation, and continue to realize the benefits of pollution prevention in the dye industry.
Source: NTIS, OCLC

LEGISLATIVE BACKGROUND

Documents

Federal Chemical Regulation: TSCA, EPCRA and the Pollution Prevention Act.
Author: Lewis, Cynthia A.
Publisher: Bureau of National Affairs, Washington, DC
Date: 1997
Pages: 551
Call No.: KF3958.L49 1997
OCLC No.: 36739565
LCCN: 97013480
ISBN: 1570180423 (hardcover)
Source: OCLC

Source The Ultimate Guide to State Pollution Prevention Legislation.
Pers. Author: Lawson, Kyla; Yurcich, Stefanie
Corp Author: National Pollution Prevention Roundtable
Date: 1996
Pages: 108
OCLC No.: 36672478
Source: OCLC

State Legislation Relating to Pollution Prevention: Survey and Summaries.
Author: Waste Reduction Institute for Training and Applications Research, Inc. (WRITAR), Minneapolis, MN; U.S. EPA, Washington, DC
Date: April 1992
Pages: 87
NTIS No.: PB95-235784
OCLC No.: 28694807
Abstract: Waste Reduction Institute for Training and Applications Research, Inc. (WRITAR) is continuing a process of compiling and summarizing existing and emerging state legislation dealing with pollution prevention and facility planning. The purpose is to provide a reference tool for all states involved in the set-up and implementation of such legislation, as well as for any other interested parties. The summaries serve only as a starting point, but ought to be useful in getting states tied into various statutory features and directions that may be desirable to them. The pieces of legislation included in the volume have as their main feature provisions that establish a pollution prevention agency and activities or a facility planning structure. The acts emphasize source reduction as the preferred method of pollution prevention.
Source: NTIS, OCLC

Tools of Prevention Opportunities for Promoting Pollution Prevention under Federal Legislation: An Environmental Law Institute Report.
Publisher: Environmental Law Institute, Washington, DC
Date: 1993
Report No.: 30681387
Source: OCLC

REFERENCE SOURCES

Documents

1993 Reference Guide to Pollution Prevention Resources.
Corp. Author: U.S. EPA, Office of Pollution Prevention and Toxics
Date: February 1993
Pages: 131
OCLC No.: 27911442
Report No.: EPA/742/B-93/001
NEIS No.: 101
Abstract: A compilation of information on training opportunities, technical assistance, publications, and state and federal programs and contacts.
Source: OCLC, NEIS

Directory of State and Local Pollution Prevention Programs.
Author: National Roundtable of State Pollution Prevention Programs; U.S. EPA, Office of Pollution, Prevention and Toxic Substances
Publisher: U.S. EPA, Washington, DC
Date: 1992
OCLC No.: 26648707
Report No.: EPA/700/B-92/003
Source: OCLC

Pollution Prevention Directory.
Publisher: Office of Pollution Prevention and Toxics, U.S. EPA, Washington, DC
Date: September 1994
Pages: 103
OCLC No.: 32190438
Report No.: EPA/742/B-94/005
Source: OCLC

Pollution Prevention Educational Resource Compendium Chemical Engineering.
Author: The Center, Ann Arbor, Mich.
Date: 1994
OCLC No.: 32870570
Source: OCLC

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APPENDICES

Appendix A - U.S. EPA Libraries

LIBRARY NAME/SITE	PHONE NO.
Andrew W. Breidenbach Environmental Research Center (AWBERC) Library/Cincinnati, OH	(513) 569-7707
Atmospheric Sciences Modeling Division Library (ASMD) Library/Research Triangle Park, NC	(919) 541-4536
Central Regional Laboratory Library/Annapolis, MD	(301) 266-9180
Environmental Monitoring Systems Laboratory (EMSL) Library/Las Vegas, NV	(702) 798-2648
Subsurface Protection and Remediation Division Library/Ada, OK	(405) 743-2256
NHEERL-Western Ecology Division Library/Corvallis, OR	(503) 757-4731
Mid-Continent Ecology Division Library/Duluth, MN	(218) 720-5538
Atlantic Ecology Division Library/Narragansett, RI	(401) 782-3025
Ecosystems Research Division-Athens Library/Athens, GA	(404) 546-3324
Gulf Ecology Division Library/Gulf Breeze, FL	(904) 932-5311
Headquarters Information Resources Center/Washington, DC	(202) 260-5922
Law Library/Washington, DC	(202) 260-5919
Legislative Reference Library/Washington, DC	(202) 260-5425
Library Services/Research Triangle Park, NC	(919) 541-2777
National Enforcement Investigations Center (NEIC) Library/Denver, CO	(303) 236-5122
National Vehicle and Fuel Emissions Laboratory (NVFEL) Library/Ann Arbor, MI	(313) 668-4311
Office of Air Quality Planning and Standards (OAQPS) Library/Research Triangle Park, NC	(919) 541-5514
Office of Pollution Prevention and Toxics Library/Washington, DC	(202) 260-3944
Region 1 Library/Boston, MA	(617) 565-3300
Region 1 RCRA Library/Boston, MA	(617) 565-3282
Region 2 Field Office Library/Edison, NJ	(908) 321-6762
Region 2 Library/New York, NY	(212) 637-3185
Region 3 Library/Philadelphia, PA	(215) 566-5254
Region 4 Library/Atlanta, GA	(404) 347-4216
Region 5 Library/Chicago, IL	(312) 353-2022
Region 6 Library/Dallas, TX	(214) 665-6424
Region 7 Library/Kansas City, KS	(913) 551-7358
Region 8 Library/Denver, CO	(303) 312-6312
Region 9 Library/San Francisco, CA	(415) 744-1510
Region 10 Library/Seattle, WA	(206) 553-1289

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Appendix B - Technical Assistance Providers

GOVERNMENT - NATIONAL

Provider: Asbestos Abatement/Management Ombudsman
Telephone: (703) 305-5938 or (800) 368-5888
Hours: 8:00 a.m. - 4:30 p.m. (EST) M-F
Abstract: The assigned mission of the Asbestos Ombudsman is to provide to the public sector, including individual citizens and community services, information on handling, abatement, and management of asbestos in schools, the work place, and the home. Interpretation of the asbestos in schools requirements is provided. Publications to explain recent legislation are also available. Services are provided to private citizens, state agencies, local agencies, local public and private school systems, abatement contractors, and consultants.

Provider: Association of Small Business Development Centers
Membership: State small business development centers
Affiliations: State small business development centers
Name: Jim King
Position: Chairman, Government Relations
Telephone: (518) 443-5398
Fax: (518) 465-4992
E-mail: kingj@sysadm.suny.edu
Name: Kathleen Dawson
Position: Executive Director
Telephone: (703) 448-6124
Fax: (703) 448-6125

Provider: U.S. EPA Small Business Ombudsman Clearinghouse/Hotline
Telephone: (703) 305-5938, (800) 368-5888
Hours: Message recorder is on 24 hours a day.
Abstract: The mission of the U.S. EPA Small Business Ombudsman Clearinghouse/Hotline is to provide information to private citizens, small communities, small business enterprises, and trade associations representing the small business sector regarding regulatory activities. Technical questions are answered following appropriate contacts with program office staff members. Questions addressed cover all media program aspects within U.S. EPA.

Provider: Green Lights and Energy Star Programs
Telephone: (202) 775-6650, (888) STAR-YES [782-7937]
Abstract: The success of the Green Lights program depends on the actions taken by Partners and Allies to implement energy-efficient lighting upgrade projects, ultimately resulting in sustained pollution prevention. U.S. EPA's participant support programs provide planning and implementation guidance for successful lighting upgrade projects. U.S. EPA offers four types of support programs: Information, Planning, Analysis Tools, and Communications.

Provider: Indoor Air Quality Information Clearinghouse (IAQINFO)
Telephone: (800) 438-4318
Fax: (202) 484-1510
E-mail: iaqinfo@aol.com
Hours: 9:00 a.m. to 5:00 p.m. (EST), M-F; after-hours voice mail
Abstract: The purpose of the IAQINFO is to help you locate information to answer your questions about indoor air pollution. IAQINFO can provide information on (1) the sources, health effects, testing and measuring, and controlling indoor air pollutants; (2) constructing and maintaining homes and buildings to minimize indoor air quality problems; (3) existing standards and guidelines related to indoor air quality; and (4) general information on Federal and State legislation.

Provider: Information Resources Center (formerly the library)
Telephone: (202) 260-5922
Hours: 8:00 a.m. - 5:00 p.m., M-F (walk-in)
E-mail: libraryhq@epamail.epa.gov
Abstract: The Information Resources Center is open to U.S. EPA personnel and the public. It provides access to U.S. EPA publications, books and journals related to environmental issues, and to the Federal regulations.

Provider: National Radon Helpline
Telephone: (800) 55-RADON [557-2366]
Abstract: The National Radon Helpline provides general information and respond to consumer questions on radon.

Provider: National Response Center
Telephone: (800) 424-8802
Abstract: The National Response Center (NRC) is the federal government's national communications center, and is staffed 24 hours a day by U.S. Coast Guard. The NRC receives all reports of releases involving hazardous substances and oil that trigger the federal notification requirements under several laws. Reports to the NRC activate the National Contingency Plan and the federal government's response capabilities. It is the responsibility of the NRC staff to notify the pre-designated on-scene coordinator (OSC) assigned to the area of the incident and to collect available information on the size and nature of the release, the facility or vessel involved, and the party(ies) responsible for the release. The NRC maintains reports of all releases and spills in a national database called the Emergency Response Notification System.

Provider: National Small Flows Clearinghouse
Telephone: (800) 624-8301, (304) 293-4191
Hours: 8:00 a.m. - 5:00 p.m. (EST) M-F
Abstract: The National Small Flows Clearinghouse was established to provide small communities with information and technical assistance to address wastewater treatment issues.

Provider: Oil Spill Program Information Line
Telephone: (202) 260-2342
E-mail: oilinfo@epamail.epa.gov
Abstract: U.S. EPA maintains an oil spill program information line to answer questions and provide information to the public and owners and operators of regulated facilities on the following topics: Facility Response Plan rulemaking, Emergency Response Notification System (ERNS), NCP product schedule, and other questions related to U.S. EPA's oil spill program.

Provider: Radon Fix-It Line
Telephone: (800) 644-6999
Hours: 12:00 p.m. and 8:00 p.m. (EST), M-F
Abstract: The Consumer Research Council, a nonprofit consumer organization, operates the Radon Fix-it Line, which is free of charge. The Radon Fix-it Line provides guidance and encouragement to consumers with elevated radon levels of 4 pCi/L or higher to take the necessary steps toward fixing their homes.

Provider: Safe Drinking Water Hotline
Telephone: (800) 426-4791
Hours: 9:00 a.m. - 5:30 p.m. (EST), M-F
E-mail: hotline-sdwa@epamail.epa.gov
Abstract: The Hotline assists Public Water Systems, State and local officials, and members of the public with information on U.S. EPA regulations and programs authorized by the Safe Drinking Water Act Amendments of 1986 and 1996. This includes drinking water regulations, other related drinking water topics, wellhead protection and ground water protection program information.

GOVERNMENT – REGIONAL

Provider: National Response Center - regional programs
Telephone:

Region I	(617) 223-7265
Region II	(732) 548-8730
Region III	(215) 566-3255
Region IV	(404) 562-8700
Region V	(312) 353-2318
Region VI	(214) 665-2222
Region VII	(913) 281-0991
Region VIII	(303) 293-1788
Region IX	(415) 744-2000
Region X	(206) 553-1263

Provider: Region I Air Quality Information Line
Telephone: (617) 565-9145
Abstract: The Air Quality Information Line is a voice mail system that routes the caller to the appropriate Region I air quality point of contact for the purpose of lodging complaints, asking questions, requesting information, and providing tips.

Provider: Region I General Information
Telephone: (617) 565-3420
Abstract: This is the telephone number for the operator and employee locator for Region I. Questions, requests for information, and complaints are routed to the appropriate office or person.

Provider: Region II Superfund Investigators Hotline
Telephone: (800) 245-2738
Abstract: This hotline is exclusively for the public with potential information on Superfund sites.

Provider: Region II Superfund Ombudsman
Telephone: (888) 283-7626
Abstract: The Ombudsman assists the public and regulated community in resolving problems concerning any requirement under Superfund. The Ombudsman handles complaints from citizens and the regulated community, obtains facts, sorts information, and substantiates policy.

Provider: Region III Customer Service Hotline
Telephone: (800) 438-2474 (within Region III)
(215) 566-5122 (outside Region III)
Abstract: The Customer Service Hotline provides general information to the public regarding the Region and its programs. The hotline also sends out materials, and refers inquiries to the appropriate office or person.

Provider: Region III Small Business Assistance Center
Telephone: (800) 228-8711(within Region III)
(215) 566-5122 (outside Region III)
Abstract: The center helps small businesses comply with U.S. EPA regulations.

Provider: Region III Superfund Ombudsman
Telephone: (800) 553-2509(within Region III)
(215) 566-5122 (outside Region III)
Abstract: The Ombudsman assists the public and regulated community in resolving problems concerning any requirement under Superfund. The Ombudsman handles complaints from citizens and the regulated community, obtains facts, sorts information, and substantiates policy.

Provider: Region IV Helpline
Telephone: (800) 241-1754
Abstract: The Region IV Helpline provides general information to the public regarding the Region and its programs. The helpline also sends out materials upon request, and refers inquiries to the appropriate office or person.

Provider: Region VII U.S. EPA Action Line
Telephone: (913) 551-7122 (Kansas City calling area)
(800) 223-0425
Abstract: The action line provides assistance to citizens on any issue under U.S. EPA's purview. The Action Line receives all incoming inquiries and refers them to the appropriate offices.

Provider: Region IX Public Information Center
Telephone: (415) 744-1500
Hours: 8:00 a.m. - 12:00 p.m. and 1:00 p.m. - 4:00 p.m., M-F
Abstract: The Region IX Public Information Center provides general information to the public regarding the Region and its programs. The Center also sends out materials upon request, and refers inquiries to the appropriate office or person.

Provider: Region IX RCRA Hotline/Information Line
Telephone: (415) 744-2074
Hours: 1:00 p.m. - 4:00 p.m., M-F
Abstract: The RCRA Hotline/Information Line general information to the public regarding the RCRA regulatory requirements and related issues. The information line also routes inquiries to the appropriate office or person.

GOVERNMENT - STATE

Provider: Alabama Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.adem.state.al.us
Affiliations: Alabama Department of Environmental Management, Air Division
Name: James Moore
Position: Program Manager
Telephone: (334) 271-7861
Fax: (334) 271-7950
E-mail: Rbr@adem.state.al.us
Name: Toll Free Hotline (National)
Telephone: (800) 533-2336

Provider: Alabama Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.cba.ua.edu/~cba/sbdc.html
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
Name: John Sandefur
Position: State Director
Telephone: (205) 934-7260
Fax: (205) 934-7645
E-mail: asbd003@uabdpo.dpo.uab.edu

Provider: Alaska Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.state.ak.us/akdec
Affiliations: Alaska Department of Environmental Conservation
Name: David Wigglesworth
Position: Acting Director
Telephone: (907) 269-7571
Fax: (907) 269-7600
E-mail: CompAsst@envircon.state.ak.us
Name: Scott Lytle
Position: Manager
Name: Toll Free Hotline (State)
Telephone: (800) 510-2332

Provider: Alaska Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
Name: Jan Fredericks
Position: State Director
Telephone: (907) 274-7232
Fax: (907) 274-9524
E-mail: anjaf@uaa.alaska.edu

Provider: Arizona Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.adeq.state.az.us/admin/do/comp.htm
Affiliations: Arizona Department of Environmental Quality, Customer Service
Name: Gregory Workman
Position: Program Manager
Telephone: (602) 204-4337
Fax: (602) 207-4872
E-mail: workman.gregory@ev.state.az.us
Name: Toll Free Hotline (State)
Telephone: (800) 234-5677

Provider: Arizona Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.dist.maricopa.edu/sbdc
Affiliations: Association of Small Business Development Centers
Maricopa Community College
U.S. Small Business Administration
Name: Michael York
Position: State Director
Telephone: (602) 731-8722
Fax: (602) 731-8729
E-mail: york@maricopa.edu

Provider: Arkansas Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: Arkansas Department of Pollution Control and Ecology
Name: Robert Graham
Position: Small Business Ombudsman
Telephone: (501) 682-0708
Fax: (501) 682-0707
E-mail: help-sba@adeq.state.ar.us

Provider: Arkansas Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.ualr.edu/~sbdcdept
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
University of Arkansas at Little Rock
Name: Janet Nye
Position: State Director
Telephone: (501) 324-9043
Fax: (501) 324-9049
E-mail: jmnye@ualr.edu

Provider: California Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.arb.ca.gov/cd/cd.htm
Affiliations: California Environmental Protection Agency, Air Resources Bureau
Name: Peter Venturini
Position: Director
Telephone: (916) 445-0650
Fax: (916) 327-7212
E-mail: helpline@arb.ca.gov
Name: Toll Free Hotline (State)
Telephone: (800) 272-4572

Provider: California Small Business Development Center Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.commerce.ca.gov/small
Affiliations: Association of Small Business Development Centers
Name: Kim Neri
Position: State Director
Telephone: (916) 324-5068
Fax: (916) 324-5084
E-mail: kimn@smtp.doc.ca.gov

Provider: California South Coast Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.aqmd.gov/business
Affiliations: California South Coast Air Quality Management District
Name: Natalia Porche
Position: Director
Telephone: (909) 396-3218
Fax: (909) 396-3335
Name: Toll Free Hotline (National)
Telephone: (800) 388-2121

Provider: Colorado Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL:
www.state.co.us/gov_dir/regulatory_dir/orr.htm
Affiliations: Colorado Department of Health, Air Pollution Control Division
Name: Nick Melliadis
Position: Director
Telephone: (303) 692-3175
Fax: (303) 782-5493
Name: Toll Free Hotline
Telephone: (800) 333-7798

Provider: Colorado Small Business Development Center Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.state.co.us/gov_dir/obd/sbdc/htm
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
Name: Joseph Bell
Position: State Director
Telephone: (303) 892-3809
Fax: (303) 892-3848
E-mail: sbdclcl@attmail_com
Name: Toll Free Hotline
Telephone: (800) 726-8000

Provider: Connecticut Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: Connecticut Department of Environmental Protection
Name: Glen Daraskevich
Position: Program Manager
Telephone: (860) 424-3545
Fax: (860) 424-4063

Provider: Connecticut Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.sbdc.uconn.edu
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
University of Connecticut
Name: Dennis Gruell
Position: State Director
Telephone: (860) 486-4135
Fax: (860) 486-1576
E-mail: gruell@ct.sbdc.uconn.edu

Provider: Delaware Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.dnrec.state.de.us/tbusperm.htm
Affiliations: Delaware Department of Natural Resource Conservation
University of Delaware
Name: George Petitgout
Position: Small Business Ombudsman
Telephone: (302) 739-6400
Fax: (302) 739-6242
Name: Phil Cherry
Position: Program Director

Provider: Delaware Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
Name: Clinton Tymes
Position: State Director
Telephone: (302) 831-1555
Fax: (302) 831-1423
E-mail: 43220@brahms.udel.edu

Provider: District of Columbia Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: District of Columbia ERA, Air Resources Mangagment Division
Name: Olivia Achuko
Position: Program Manager
Telephone: (202) 645-6093
Fax: (202) 645-6102

Provider: District of Columbia Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.cldc.howard.edu/~husbdc
Affiliations: Association of Small Business Development Centers
Howard University
U.S. Small Business Administration
Name: Woodrow McCutchen
Position: Executive Director
Telephone: (202) 806-1550
Fax: (202) 806-1777
E-mail: husbdc@cldc.howard.edu

Provider: Florida Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.dep.state.fl.us/air/programs/sbap/index.htm
Affiliations: Florida Department of Environmental Protection, Bureau of Air Regulations
Name: Bob Daugherty
Position: SBAP Principal
Telephone: (904) 488-1344
Fax: (904) 922-6979
E-mail: clark_l@dep.state.fl.us
Name: Toll Free Hotline (State)
Telephone: (800) 722-7457

Provider: Florida Small Business Development Center Network
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.fsbdc.uwf.edu
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
University of West Florida
Name: Jerry Cartwright
Position: State Director
Telephone: (904) 444-2060
Fax: (904) 444-2070
E-mail: fsbdc@uwf.edu

Provider: Georgia Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.DNR.State.Ga.US/dnr/environ
Affiliations: Georgia Department of Natural Resouces, Air Protection Bureau
Name: Anita Dorsey-Word
Position: Program Manager
Telephone: (404) 362-2656
Fax: (404) 363-7100

Provider: Georgia Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.sbdc.uga.edu
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
University of Georgia
Name: Henry Logan, Jr.
Position: State Director
Telephone: (706) 542-6762
Fax: (706) 542-6776
E-mail: sbdcdir@uga.cc.uga.edu

Provider: Hawaii Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: Hawaii Department of Health, Clean Air Branch
Name: Robert Tam
Position: Program Manager
Telephone: (808) 586-4200
Fax: (808) 586-4370

Provider: Hawaii Small Business Development Center Network
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.maui.com/~sbdc/hilo.html
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
University of Hawaii at Hilo
Name: Darryl Mleynek
Position: State Director
Telephone: (808) 974-7515
Fax: (808) 974-7683
E-mail: darrylm@interpac.net

Provider: Idaho Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: Idaho Department of Environmental Quality
Name: Doug McRoberts
Position: Small Business Ombudsman
Telephone: (208) 373-0298
Fax: (208) 373-0417
E-mail: dmcrober@deq.state.id.us

Provider: Idaho Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.idbsu.edu/isbdc
Affiliations: Association of Small Business Development Centers
Boise State University
U.S. Small Business Administration
Name: Jame Hogge
Position: State Director
Telephone: (208) 385-1640
Fax: (208) 385-3877
E-mail: jhogge@bsu.idbsu.edu

Provider: Illinois Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.commerce.state.il.us
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
Name: Jeff Mitchell
Position: State Director
Telephone: (217) 524-5856
Fax: (217) 524-0171
E-mail: jeff.mitchell@accessil.com
Name: Toll Free Hotline (State)
Telephone: (800) 252-3998

Provider: Illinois Small Business Environmental Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.commerce.state.il.us/dcca/files/fs/ba/ba35.htm
Affiliations: Illinois Department of Commerce and Community Affairs
Name: Mark Enstrom
Position: Program Manager
Telephone: (217) 524-0169
Fax: (217) 785-6328

Provider: Indiana Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.state.in.us
Affiliations: Indiana Department of Environmental Mngmt, Office of Pollution Prevention
Name: Maggie McShane
Position: Office of Business Relations
Telephone: (317) 232-5964
Fax: (317) 233-5627

Provider: Indiana Small Business Development Center Network
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
Name: Stephen Thrash
Position: Executive Director
Telephone: (317) 264-6871
Fax: (317) 264-3102
E-mail: sthrash@in.net
Name: Toll Free Fax on Demand Hotline
Fax: (800) 726-8000

Provider: Iowa Air Emissions Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.iwrc.org
Affiliations: Iowa Waste Reduction Center
University of Northern Iowa
Name: John Konefes
Position: Director
Telephone: (319) 273-2079
Fax: (319) 273-2926
Name: Toll Free Hotline (State)
Telephone: (800) 422-3109

Provider: Iowa Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.iowasbdc.org
Affiliations: Association of Small Business Development Centers
Iowa State University
U.S. Small Business Administration
Name: Ronald Manning
Position: State Director
Telephone: (515) 292-6351
Fax: (515) 292-0020
E-mail: rmanning@iastate.edu

Provider: Kansas Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.sbeap.niar.twsu.edu
Affiliations: Kansas Department of Health and Environment
University of Kansas
Name: Frank Orzulak
Position: Director
Telephone: (913) 864-3978
Fax: (913) 864-5827
E-mail: ceet@falcon.ku.edu
Name: Toll Free Hotline (State)
Telephone: (800) 578-8898

Provider: Kansas Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
Name: Debbie Bishop
Position: State Director
Telephone: (913) 296-6514
Fax: (913) 291-3261
E-mail: ksbdc@cjnetworks.com

Provider: Kentucky Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.gatton.gws.uky.edu/KentuckyBusiness/kbeap
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
Univeristy of Kentucky
Name: Janet Holloway
Position: State Director
Telephone: (606) 257-7668
Fax: (606) 323-1907
E-mail: cbejh@pop.uky.edu

Provider: Louisiana Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.deq.state.la.us/oarp/sbap/sbap.html
Affiliations: Louisiana Department of Environmental Quality (Air)
Name: Toll Free Hotline (State)
Telephone: (800) 259-2890
Name: Vic Tompkins
Position: Director
Telephone: (504) 765-2453
Fax: (504) 765-0921
E-mail: sbap@deq.state.la.us

Provider: Louisiana Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: leap.nlu.edu/html/lsbdc/index.htm
Affiliations: Association of Small Business Development Centers
Northeast Louisiana University
U.S. Small Business Administration
Name: Dr. John Baker
Position: State Director
Telephone: (318) 342-5506
Fax: (318) 342-5510
E-mail: brbaker@alpha.nlu.edu

Provider: Maine Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.state.me.us/dep
Affiliations: Maine Department of Environmental Protection, Off. of Pollution Prevention
Name: Brian Kavanah
Position: Program Coordinator
Telephone: (207) 287-6188
Fax: (207) 287-7826
E-mail: brian.w.kavanah@state.me.us

Provider: Maine Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.usm.maine.edu/~sbdc
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
University of Southern Maine
Name: Charles Davis
Position: State Director
Telephone: (207) 780-4420
Fax: (207) 780-4810
E-mail: msbdc@portland.maine.edu

Provider: Maryland Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.mde.state.md.us/epsc/sbap.html
Affiliations: Maryland Department of the Environment, Air & Radiation Mgt. Admin.
Name: Lorrie Del Pizzo
Position: Project Manager
Telephone: (410) 631-6772
Fax: (410) 631-4477
Name: Toll Free Hotline (National)
Telephone: (800) 433-1247

Provider: Maryland Small Business Development Center Network
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
Name: James Graham
Position: State Director
Telephone: (301) 403-8300
Fax: (301) 403-8303
E-mail: dwirth@mbs.umd.edu

Provider: Massachusetts Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: Massachusetts Exec. Office of Env. Affairs, Office of Technical Assistance
Name: George Frantz
Position: Program Director
Telephone: (617) 727-3260
Fax: (617) 727-3827

Provider: Massachusetts Small Business Development Center Network
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.umassp.edu/msbdc
Affiliations: Association of Small Business Development Centers
University of Massachusetts- Amherst
Name: John Ciccarelli
Position: State Director
Telephone: (413) 545-6301
Fax: (413) 545-1273
E-mail: j.ciccarelli@dpc.umass.edu

Provider: Michigan Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.deq.state.mi.us/ead/iasect/eac.html
Affiliations: Michigan Department of Natural Resources
Name: Dave Fiedler
Position: Manager, Clean Air Asst. Prog.
Telephone: (517) 373-0607
Fax: (517) 335-4729
E-mail: eac@deq.state.mi.us
Name: Toll Free Hotline (National)
Telephone: (800) 662-9278

Provider: Michigan Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: BizServe.com/sbdc
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
Wayne State University
Name: Ronald Hall
Position: State Director
Telephone: (313) 964-1798
Fax: (313) 964-3648
E-mail: ron@misbdc.wayne.edu

Provider: Minnesota Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.pca.state.mn.us/programs/sbap_p.html
Affiliations: Minnesota Pollution Control Agency
Name: Barbara Conti
Position: Program Coordinator
Telephone: (612) 297-7709
Fax: (612) 297-7709
E-mail: barbara.conti@pca.state.mn.us
Name: Phyllis Strong
Position: Compliance Asst. Specialist
E-mail: phyllis.strong@pca.state.mn.us
Name: Toll Free Hotline (State)
Telephone: (800) 657-3938

Provider: Minnesota Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.sbe.d.umn.edu/ced/sbdc.html
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
Name: Mary Kruger
Position: State Director
Telephone: (612) 297-5770
Fax: (612) 296-1290
E-mail: mary.kruger@state.mn.us

Provider: Mississippi Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Chemical marketers
Independently owned businesses
Affiliations: Mississippi Department of Environmental Quality
Name: Jesse Thompson
Position: SBAP Principal
Telephone: (601) 961-5171
Fax: (601) 961-5742
E-mail: jesse_thompson@deq.state.ms.us
Name: Toll Free Hotline (National)
Telephone: (800) 725-6112

Provider: Mississippi Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.olemiss.edu/depts/mssbdc
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
Name: Raleigh Byars
Position: State Director
Telephone: (601) 232-5001
Fax: (601) 232-5650
E-mail: rbyars@olemiss.edu

Provider: Missouri Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.missouri.edu/~sbdwww
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
University of Missouri
Name: Max Summers
Position: State Director
Telephone: (573) 882-0344
Fax: (573) 884-4297
E-mail: sbdc-mso@ext.missouri.edu

Provider: Missouri Small Business Technical Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.state.mo.us/dnr/deq/tap/hometap.htm
Affiliations: Missouri Department of Natural Resources
Name: Byron Shaw, Jr.
Position: Chief, Business Assistance Unit
Telephone: (573) 526-5352
Fax: (573) 526-5808
Name: Toll Free Hotline (National)
Telephone: (800) 361-4827

Provider: Montana Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.deq.mt.gov/pcd/index.htm
Affiliations: Montana Department of Environmental Quality, Air Quality Division
Name: Mark Lambrecht
Position: Project Manager
Telephone: (406) 444-1424
Fax: (406) 406-4441
Name: Toll Free Hotline (National)
Telephone: (800) 433-8773

Provider: Montana Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
Name: Ralph Closure
Position: Acting Director
Telephone: (406) 444-4780
Fax: (406) 444-1872
E-mail: rclosure@mt.gov

Provider: Nebraska Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: Nebraska Department of Environmental Quality
Name: Dan Eddinger
Position: SBAP Principal and Ombudsman
Telephone: (402) 471-3413
Fax: (402) 471-2909
E-mail: edh@nccibm.artpnc.eta.gov

Provider: Nebraska Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.nbdc.unomaha.edu
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
University of Nebraska at Omaha
Name: Robert Bernier
Position: State Director
Telephone: (402) 554-2521
Fax: (402) 554-3473
E-mail: rbernier@cbafaculty.unomaha.edu

Provider: Nevada Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: Nevada Department of Environmental Protection
Name: David Cowperthwaite
Position: Small Business Program Manager
Telephone: (702) 687-4670
Fax: (702) 687-5856
Name: Janet Goldman
Position: Technical Asst. Coordinator
Telephone: (702) 784-3164
Name: Toll Free Hotline (State)
Telephone: (800) 992-0900

Provider: Nevada Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.scs.unr.edu/nsbdc
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
University of Nevada, Reno
Name: Sam Males
Position: State Director
Telephone: (702) 784-1717
Fax: (702) 784-4337
E-mail: wmoore@scs.unr.edu
Name: Toll Free Hotline (State)
Telephone: (800) 882-3233

Provider: New Hampshire Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: New Hampshire Department of Environmental Services, Air Resources Division
Name: Rudolph Cartier
Position: Small Business Ombudsman
Telephone: (603) 271-1379
Fax: (603) 271-1381
E-mail: cartier@de5arsb.mv.com
Name: Toll Free Hotline (State)
Telephone: (800) 837-0656

Provider: New Hampshire Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.crminc.com/sbdc/index.htm
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
University of New Hampshire
Name: Mary Collins
Position: State Director
Telephone: (603) 862-2200
Fax: (603) 862-4876
E-mail: LM1@christa.unh.edu

Provider: New Jersey Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.state.nj.us/dep
Affiliations: New Jersey Dept. of Environmental Protection, Office of Permit Information
Name: Chuck McCarty
Position: Director
Telephone: (609) 292-3600
Fax: (609) 777-1330

Provider: New Jersey Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.nj.com/njsbdc
Affiliations: Association of Small Business Development Centers
Rutgers University
Name: Brenda Hopper
Position: State Director
Telephone: (973) 353-5950
Fax: (973) 353-1110
E-mail: bhopper@andromeda.rutgers.edu

Provider: New Mexico Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: New Mexico Environmental Department, Air Quality Bureau
Name: Lany Weaver
Position: Program Manager
Telephone: (505) 827-0042
Fax: (505) 827-0045
Name: Toll Free Hotline (National)
Telephone: (800) 810-7227

Provider: New Mexico Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: Association of Small Business Development Centers
Sante Fe Community College
Name: J. Roy Miller
Position: State Director
Telephone: (505) 438-1362
Fax: (505) 471-9469
E-mail: rmiller@santa-fe.cc.nm.us

Provider: New York Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: New York State Environmental Facilities Corporation
Name: Marian Mudar
Position: Environmental Program Manager
Telephone: (518) 457-9135
Fax: (518) 485-8494
E-mail: mudar@nyefc.org
Name: Toll Free Hotline (State)
Telephone: (800) 780-7227

Provider: New York Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: Association of Small Business Development Centers
Name: James King
Position: State Director
Telephone: (518) 443-5398
Fax: (518) 465-4992
E-mail: kingjl@sysadm.suny.edu

Provider: North Carolina Small Business and Technical Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.sbtdc.org
Affiliations: Association of Small Business Development Centers
Name: Scott Daugherty
Position: Executive Director
Telephone: (919) 715-7272
Fax: (919) 715-7777
E-mail: srdaughe.sbdc@mhs.unc.edu

Provider: North Carolina Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: North Carolina Department of Health and Natural Resources
Name: Fin Johnson
Position: Program Manager
Telephone: (919) 733-0824
Fax: (919) 715-6794

Provider: North Dakota Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.ehs.health.state.nd.us/ndhd/
Affiliations: North Dakota Department of Health
Name: Jeff Burgess
Position: Environmental Engineer
Name: Toll Free Hotline (State)
Telephone: (800) 755-1625
Name: Tom Bachman
Position: Manager of Permitting
Telephone: (701) 328-5188
Fax: (701) 328-5200
E-mail: health@pioneer.state.nd.us

Provider: North Dakota Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
Name: Walter Kearns
Position: State Director
Telephone: (701) 777-3700
Fax: (701) 777-3225
E-mail: Kearns@prairie.nodak.edu

Provider: Ohio Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.epa.ohio.gov/other/sbao/sbaindex.html
Affiliations: Ohio EPA, Division of Air Pollution
Name: Jim Carney
Position: Program Representative
E-mail: jim.carney@central.epa.ohio.us

Name: Rick Carleski
Position: Program Supervisor
Telephone: (614) 728-1742
Fax: (614) 644-3681

Provider: Ohio Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.soerf.ohiou.edu/~osbdc
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
Name: Holly Schick
Position: State Director
Telephone: (614) 466-2711
Fax: (961) 466-0829
E-mail: hschick@odod.ohio.gov
Name: Toll Free Hotline (National)
Telephone: (800) 848-1300
Name: Toll Free Hotline (State)
Telephone: (800) 248-4040

Provider: Oklahoma Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.deq.oklaosf.state.ok.us.SBAPintr.htm
Affiliations: Oklahoma Department of Environmental Quality
Name: Adrian Simmons
Position: Wood Furniture, Emissions
Name: Alwin Ning
Position: Electroplating & Printing
Telephone: (405) 271-1400
Fax: (405) 271-1317
Name: Judy Duncan
Position: Director, Customer Services Div.
Name: Kyle Arthur
Position: Degreasing, Drycleaning, Title V
Name: Toll Free Hotline (State)
Telephone: (800) 869-1400

Provider: Oklahoma Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: Association of Small Business Development Centers
Southeastern Oklahoma State
U.S. Small Business Administration
Name: Grady Pennington
Position: State Director
Telephone: (800) 522-6154
Fax: (405) 920-7471
E-mail: gpennington@sosu.edu

Provider: Oregon Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.deq.state.or.us
Affiliations: Oregon Department of Environmental Quality, Air Quality Division
Name: Terry Obteshka
Position: Director
Telephone: (503) 229-6147
Fax: (503) 229-5675
E-mail: obteshka.terry@deq.state.or.us
Name: Toll Free Hotline (State)
Telephone: (800) 452-4011

Provider: Oregon Small Business Development Center Network
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: Association of Small Business Development Centers
Lane Community College
U.S. Small Business Administration
Name: Edward (Sandy) Cutler
Position: State Director
Telephone: (541) 726-2250
Fax: (541) 345-6006
E-mail: cutlers@lanecc.edu

Provider: Pennsylvania Air Help Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.dep.state.pa.us/dep/deputate/pollprev
Affiliations: Pennsylvania Department of Environmental Resources, Bureau of Air Quality
Name: Scott Kepner
Position: Director
Telephone: (717) 787-1663
Fax: (717) 772-2303
E-mail: webmaster@a1.dep.state.pa.us
Name: Toll Free Hotline (National)
Telephone: (800) 722-4343

Provider: Pennsylvania Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.libertynet.org/pasbdc
Affiliations: Association of Small Business Development Centers
The Wharton School of the University of Pennsylvania
U.S. Small Business Administration
Name: Gregory Higgins
Position: State Director
Telephone: (215) 898-1219
Fax: (215) 573-2135
E-mail: ghiggins@wharton.upenn.edu

Provider: Rhode Island Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: Rhode Island Department of Environmental Management
Name: Pam Annarummo
Position: Program Supervisor
Name: Richard Enander
Position: Technical Assistance Mangager
Telephone: (401) 277-6822
Fax: (401) 277-3810

Provider: Rhode Island Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.ri-sbdc.com
Affiliations: Association of Small Business Development Centers
Bryant College
U.S. Small Business Administration
Name: Douglas Jobling
Position: State Director
Telephone: (401) 232-6111
Fax: (401) 232-6933

Provider: South Carolina Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.state.sc.us/dhec/eqchome.htm
Affiliations: South Carolina Bureau of Air Quality Control
Name: Chad Pollock
Position: Technical Assistance
Telephone: (803) 734-2765
Fax: (803) 734-9196
E-mail: pollocrc@columb30.dhec.state.sc.us
Name: Donna Gulledge
Position: Small Business Ombudsman
Telephone: (803) 734-6487
Fax: (803) 734-9196
E-mail: gulleddh@columb30.dhec.state.sc.us
Name: Toll Free Hotline (National)
Telephone: (800) 819-9001

Provider: South Carolina Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: sbdcweb.badm.sc.edu
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
University of South Carolina
Name: John Lenti
Position: State Director
Telephone: (803) 777-4907
Fax: (803) 777-4403
E-mail: Lenti@darla.badm.sc.edu

Provider: South Dakota Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.state.sd.us/state/executive/denr
Affiliations: South Dakota Department of Environmental and Natural Resources
Name: Bryan Gustafson
Position: Air Permitting
Telephone: (605) 773-3351
Fax: (605) 773-6035
E-mail: joen@denr.state.sd.us

Provider: South Dakota Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
University of South Dakota
Name: Robert Ashley, Jr.
Position: State Director
Telephone: (605) 677-5498
Fax: (605) 677-5272
E-mail: rashley@sundance.usd.edu

Provider: Tennessee Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.state.tn.us/environment/permits/handbook
Affiliations: Tennessee Department of the Environment and Conservation
Name: Linda Sadler
Position: Director
Telephone: (615) 532-0779
Fax: (615) 532-0614
Name: Toll Free Hotline (National)
Telephone: (800) 734-3619

APP

Provider: Tennessee Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.tsbdc.memphis.edu
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
University of Memphis
Name: Dr. Kenneth Burns
Position: State Director
Telephone: (901) 678-2500
Fax: (901) 678-4072
E-mail: gmickle@admin1.memphis.edu

Provider: Texas Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.tnrcc.state.tx.us/exec/small_business
Affiliations: Texas Natural Resource Conservation Commission
Name: Kerry Drake
Position: Manager, Technical Asst. Prog.
Telephone: (512) 239-1112
Fax: (512) 239-1055
E-mail: sbap@tnrcc.state.tx.us
Name: Toll Free Hotline (National)
Telephone: (800) 447-2827

Provider: Texas- Houston Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: SmBizSolutions.uh.edu
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
University of Houston
Name: Mike Young
Position: Regional Director
Telephone: (713) 752-8444
Fax: (713) 756-1500
E-mail: MYoung@UH.EDU

Provider: Texas- North Texas Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.dcccd.edu/bjp/sbdc.htm
Affiliations: Association of Small Business Development Centers
Dallas County Community College
U.S. Small Business Administration
Name: Elizabeth Klimback
Position: Regional Director
Telephone: (214) 860-5835
Fax: (214) 860-5813

E-mail: emk9402@dcccd.edu

Provider: Texas- Northwest Texas Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: nwtsbdc.ttu.edu
Affiliations: Association of Small Business Development Centers
Texas Tech University
U.S. Small Business Administration
Name: Craig Bean
Position: Regional Director
Telephone: (806) 745-3973
Fax: (806) 745-6207
E-mail: odaus@ttacs.ttu.edu

Provider: Texas- South Texas Border Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.lot49.Tristero.Com/sa/sbdc
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
Name: Robert McKinley
Position: Regional Director
Telephone: (210) 458-2450
Fax: (210) 458-2464
E-mail: rmckinle@utsadt.utsa.edu

Provider: University of Kentucky Business Environmental Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL:
gatton.gws.uky.edu/KentuckyBusiness/kbeap/kbeap.ht
Affiliations: Kentucky Department of Natural Resources and Environmental Protection
University of Kentucky
Name: Greg Copely
Position: Director
Telephone: (606) 257-1131
Fax: (606) 323-1907
E-mail: kbeap@pop.uky.edu
Name: Toll Free Hotline (State)
Telephone: (800) 562-2327

Provider: Utah Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.deq.state.ut.us
Affiliations: Utah Department of Environmental Quality, Division of Air Quality
Name: Frances Bernards
Position: Program Manager
Telephone: (801) 536-4056
Fax: (801) 536-4099
E-mail: fbernard@deq.state.ut.us
Name: Toll Free Hotline
Telephone: (800) 270-4440

Provider: Utah Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.slcc.edu/utahsbdc
Affiliations: Association of Small Business Development Centers
Salt Lake Community College
U.S. Small Business Administration
Name: Mike Finnerty
Position: State Director
Telephone: (801) 957-3480
Fax: (801) 957-3489
E-mail: finnermi@slcc.edu

Provider: Vermont Small Business Compliance Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: Vermont Agency of Natural Resources
Name: Judy Mirro
Position: Director
Telephone: (802) 241-3745
Fax: (802) 241-3273
E-mail: judym@waste.man.anr.state.vt.us

Provider: Vermont Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
Name: Donald Kelpinski
Position: State Director
Telephone: (802) 728-9101
Fax: (802) 728-3026
E-mail: dkelpins@night.vtc.vsc.edu
Name: Peter Crawford
Position: Dir., Environmental Asst. Prog.
E-mail: pcrawfor@vtc.vsc.edu

Provider: Virginia Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.dba.state.virginia.us
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
Name: Robert Wilburn
Position: State Director
Telephone: (804) 371-8253
Fax: (804) 225-3384
E-mail: rwilburn@dba.state.va.us

Provider: Virginia Small Business Policy and Technical Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.deq.state.va.us/osba/smallbiz.html
Affiliations: Virginia Department of Environmental Quality
Name: Richard Rasmussen
Position: Manager
Telephone: (804) 698-4394
Fax: (804) 698-4510
E-mail: rgrasmusse@deq.state.va.us
Name: Toll Free Hotline (State)
Telephone: (800) 592-5482

Provider: Washington Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: Washington Department of Ecology
Name: Leighton Pratt
Position: Small Business Ombudsman
Telephone: (360) 407-7018
Fax: (360) 407-6802

Provider: Washington Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.sbdc.wsu.edu
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
Washington State University
Name: Carol Riesenberg
Position: State Director
Telephone: (509) 335-1576
Fax: (509) 335-0949
E-mail: riesenbe|@wsu.edu

Provider: West Virginia Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: West Virginia Office of Air Quality
Name: Fred Durham
Position: Director
Telephone: (304) 558-1217
Fax: (304) 558-1222
E-mail: durhaf@mail.wvnet.edu
Name: Toll Free Hotline (State)
Telephone: (800) 982-2474

Provider: West Virginia Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.wvdo.org/sbdc
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
Name: Hazel Kroesser-Palmer
Position: State Director
Telephone: (304) 558-2960
Fax: (304) 558-0127
E-mail: palmeh@mail.wvnet.edu

Provider: Wisconsin Clean Air Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: badger.state.wi.us/agencies/commerce
Affiliations: U.S. Small Business Administration
University of Wisconsin
Wisconsin Department of Commerce
Name: Cliff Fleener
Position: Clean Air Specialist
E-mail: cfleener@mail.state.wi.us
Name: Pam Christenson
Position: Technical Assitance Director
Telephone: (608) 267-9214
Fax: (608) 267-0436
E-mail: pchriste@mail.state.wi.us

Provider: Wisconsin Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
U.S. Small Business Administration
Name: Erica McIntire
Position: State Director
Telephone: (608) 263-7794
Fax: (608) 263-7830
E-mail: mcintire@admin.uwex.edu

Provider: Wyoming Small Business Assistance Program
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Internet URL: www.deq.state.wy.us/ms/outweb.htm
Affiliations: Wyoming Department of Environmental Quality, Division of Air Quality
Name: Charles Raffelson
Position: Program Coordinator
Telephone: (307) 777-7391
Fax: (307) 777-5616
E-mail: dclark@missc.state.wy.us

Provider: Wyoming Small Business Development Center
Membership: Businesses classified as non-major sources
Businesses with 100 or fewer employees
Independently owned businesses
Affiliations: Association of Small Business Development Centers
U.S. Small Business Administration
Name: Diane Wolverton
Position: State Director
Telephone: (307) 766-3505
Fax: (307) 766-3406

NON-PROFIT - NATIONAL

Provider: Center for Emissions Control
Membership: Chlorinated solvent producers
Internet URL: www.cec-dc.org
Affiliations: Chlorine Institute
Name: Stephen Risotto
Position: Executive Director
Telephone: (202) 785-4374
Fax: (202) 833-0381
E-mail: srisotto@cec-dc.org

Provider: Research Triangle Institute
Membership: Researchers
Internet URL: www.rti.org/gen_info.html
Affiliations: Duke University
North Carolina State University
University of North Carolina at Chapel Hill
Name: Jesse Baskir, Ph.D.
Position: Director
Telephone: (919) 541-5882
Fax: (919) 541-7155
E-mail: jbaskir@rti.org

NON-PROFIT - STATE

Provider: Plastics Processors Association of Ohio
Membership: Plastics processors
Rubber product manufacturers
Internet URL: www.polysort.com
Affiliations: Society of the Plastics Industry, Inc.
Name: Chris Chrisman
Position: Executive Director
Telephone: (800) 326-8666
Fax: (330) 665-5152
E-mail: ppaohio@polysort.com

PRIVATE COMPANY - INTERNATIONAL

Provider: Alliance for Responsible Atmospheric Policy
Membership: CFCs, HCFCs & HFCs prod. manuf.
Producers of CFCs, HCFCs, and HFCs
Name: David Stirpe
Position: Legislative Council
Telephone: (703) 243-0344
Fax: (703) 243-2874

PROFESSIONAL ASSOCIATION - INTERNATIONAL

Provider: American Association of Textile Chemists and Colorists
Membership: Textile chemists
Textile colorists
Internet URL: www.aatcc.org
Name: Jerry Tew
Position: Technical Director
Telephone: (919) 549-8141
Fax: (919) 549-8933

Provider: American Oil Chemists Society
Membership: Fats, oils, & related materials chemists
Fats, oils, & related materials manufacturers
Internet URL: www.aocs.org
Name: James C. Lyon
Position: Executive Director
Telephone: (217) 359-2344
Fax: (217) 351-8091
E-mail: general@aocs.org

Provider: Center for Waste Reduction Technologies
Membership: Chemical manufacturers
Contractors
Downstream manufacturing industries
Petroleum products manufacturers
Pharmaceutical manufacturers
Raw materials suppliers
Internet URL: 198.6.4.175/docs/cwrt.index.htm
Affiliations: American Institute of Chemical Engineers
Name: Jack Weaver
Position: Director
Telephone: (212) 705-7424

Fax: (212) 838-8274
E-mail: cwrt@aiche.org

Provider: Electrochemical Society
Membership: Electrochemical engineers
Electrochemical facilities
Electrochemical scientists
Internet URL: www.electrochem.org
Affiliations: American Association for the Advancement of Science
Chemical Heritage Foundation
Federation of Materials Sciences
Name: V.H. Brannecky
Position: Executive Secretary
Telephone: (609) 737-1902
Fax: (609) 737-2743
E-mail: ecs@electrochem.org

Provider: Technical Association of the Pulp and Paper Industry
Membership: Pulp and paper industry professionals
Pulp and paper manufacturers
Pulp and paper processors
Pulp-derived chemical products manufacturers
Internet URL: www.tappi.org
Affiliations: American Forest and Paper Association
National Council for Air and Stream Improvement
Paper Industry Management Association
Name: Wayne Gross
Position: Executive Director
Telephone: (770) 209-7233
Fax: (770) 446-6947

PROFESSIONAL ASSOCIATION - NATIONAL

Provider: American Chemical Society
Membership: Chemical engineers
Chemists
Internet URL: www.acs.org
Name: John K. Crum
Position: Executive Director
Telephone: (202) 872-8724
Fax: (202) 872-6206

Provider: American Institute of Chemical Engineers
Membership: Chemical engineers
Internet URL: www.aiche.org
Affiliations: Center for Chemical Process Safety
Center for Waste Reduction Technologies
Design Institute for Emergency Relief Systems
Design Institute for Physical Property Data
Name: Sean Devlin Bersell
Position: Director, Government Relations
Telephone: (202) 962-8690
Fax: (202) 962-8699

Provider: Federation of Societies for Coatings Technology
Membership: Chemical coatings manufacturers
Chemical coatings users
Internet URL: www.coatingstech.org
Affiliations: National Paint and Coatings Association
Name: Robert F. Ziegler
Position: Executive Vice President
Telephone: (610) 940-0777
Fax: (610) 940-0292

Provider: Society of Cosmetic Chemists
Membership: Chemists
Name: Theresa Cesario
Position: Business Administrator
Telephone: (212) 668-1500
Fax: (212) 668-1504
E-mail: societycoschem@worldnet.att.net

TRADE ASSOCIATION - INTERNATIONAL

Provider: Adhesives and Sealants Council
Membership: Adhesives manufacturers
Consultants
Equipment manufacturers
Sealant manufacturers
Internet URL: www.ascouncil.org
Name: Mark Collatz
Position: Director of Government Relations
Telephone: (202) 452-1500
Fax: (202) 452-1501

Provider: Chlorine Institute
Membership: Chlor-alkali chemical distributors
Chlor-alkali chemicals manufacturers
Chlor-alkali chemicals marketers
Internet URL: www.cl2.com
Affiliations: Center for Emissions Control
Chemical Manufacturers Association
Halogenated Solvents Industry Alliance
Name: Arthur Duncan
Position: VP Health, Safety, & Environment
Name: Dr. Robert Smerko
Position: President
Telephone: (202) 775-2790
Fax: (202) 223-7225

Provider: International Institute of Synthetic Rubber Products
Membership: Synthetic Rubber Producers
Name: R.J. Killian
Position: Managing Director
Telephone: (713) 783-7511
Fax: (713) 783-7253
E-mail: iisrp@attmail.com

Provider: Pulp Chemicals Association
Membership: Pulp-derived chemical products manufacturers
Name: Jennie Lazarus
Position: PCA Coordinator
Telephone: (770) 209-7237
E-mail: jlazarus@tappi.org
Name: Matthew Coleman
Position: Executive Director
Telephone: (770) 446-1290
Fax: (770) 446-1487

Provider: Suppliers of Advanced Composite Materials Association
Membership: Advanced composite materials suppliers
Affiliations: Suppliers of Advanced Materials Processing Engineers
Name: Lynne Justice
Position: Director of Administration
Telephone: (703) 841-1556
Fax: (703) 812-8743
E-mail: iaistaff@worldnet.att.net

TRADE ASSOCIATION - NATIONAL

Provider: Adhesives Manufacturers Association
Membership: Adhesives manufacturers
Raw materials suppliers
Internet URL: www.adhesive.org/ama
Name: Frank Moore
Position: Director, Government Relations
Telephone: (202) 857-1127
Fax: (202) 857-1115

Provider: American Crop Protection Association
Membership: Agricultural crop protection distributors
Agricultural crop protection formulators
Agricultural crop protection manufacturers
Pest control product distributors
Pest control product formulators
Pest control product manufacturers
Internet URL: www.acpa.org
Name: Ray McAllister
Position: Director, Regulatory Affairs
Telephone: (202) 296-1585
Fax: (202) 463-0474

Provider: American Fiber Manufacturers Association
Membership: Fibers, filaments, and yarns manufacturers
Internet URL: www.fibersource.com (under construction)
Affiliations: Fiber Economics Bureau
Name: Dr. Robert Barker
Position: Vice President
Telephone: (202) 296-6508
Fax: (202) 296-3052
E-mail: inks@afma.org
Name: Jeff Inks

Provider: American Petroleum Institute
Membership: Petroleum products manufacturers
Petroleum products users
Internet URL: www.api.org
Name: Joe Lastelic
Position: Senior Media Relations Rep
Telephone: (202) 682-8000
Fax: (202) 682-8096
E-mail: pr@api.org

Provider: Biotechnology Industry Organization
Membership: Biotechnology companies
State biotechnology centers
Internet URL: www.bio.org
Affiliations: Arkansas Biotechnology Association and Biomedical Technology Center
Bay Area Bioscience Center
BIO+Florida
BIOCOM/San Diego
Biotechnology Association of Maine
Biotechnology Council of New Jersey
California Healthcare Institute
Colorado Biotechnology Association
Connecticut United For Research Excellence
Edison Biotechnology Center
Georgia Biomedical Partnership
Illinois Alliance for Biotechnology
Iowa Biotechnology Association
Los Alamos National Lab
Maryland Bioscience Alliance
Massachusetts Biotechnology Council
Michigan Biotechnology Association
Minnesota Biotechnology Association
New York Biotechnology Association
North Carolina Bioscience Organization
Oregon Bioscience Association
Pennsylvania Biotechnology Association

South Dakota Biotechnology Association
Texas Healthcare and Bioscience Institute
Utah Life Science Industries Association
Virginia Biotechnology Association
Washington Biotechnology & Biomedical Association
Wisconsin Biotechnology Association
Name: Richard G. Godown
Position: President
Telephone: (202) 857-0244
Fax: (202) 857-0237
E-mail: info@bio.org

Provider: Chemical Coaters Association International
Membership: Chemical coatings manufacturers
Chemical coatings users
Internet URL: www.finishing.com/CCAI/index.html
Name: Anne Goyer
Position: Executive Director
Telephone: (513) 624-6767
Fax: (513) 624-0601
E-mail: aygoyer@mci2000.com

Provider: Chemical Manufacturers Association
Membership: Chemical manufacturers
Internet URL: www.cmahq.com
Affiliations: Alabama Chemical Association
Alliance of Chemical Industries of New York State, Inc.
Association of Water Technologies
Chemical Council of Missouri
Chemical Industry Committee, Tennessee Association of Business
Chemical Industry Committee, WV Manufacturers Association
Chemical Industry Council of Associated Industries of Kentucky
Chemical Industry Council of California
Chemical Industry Council of Delaware
Chemical Industry Council of Illinois
Chemical Industry Council of Maryland
Chemical Industry Council of New Jersey
Chlorine Institute, The
Compressed Gas Association, Inc.
East Harris County Manufacturers Association
Florida Manufacturing and Chemical Council
Louisiana Chemical Association
Manufacturers and Chemical Industry Council of North Carolina
Massachusetts Chemical Technology Alliance
Michigan Chemical Council
Minnesota Chemical Technology Alliance
Ohio Chemical Council
Pennsylvania Chemical Industry Council
Synthetic Organic Chemical Manufacturers Association
Texas Chemical Council
Vinyl Institute
Name: Joe Mayhew
Position: Asst. VP, Environment & Policy
Telephone: (703) 741-5000
Fax: (703) 741-6000

Provider: Chemical Producers and Distributors Association
Membership: Chemical distributors
Chemical manufacturers
Name: Warren Stickle
Position: President
Telephone: (703) 548-7700
Fax: (703) 548-3149
E-mail: cpda@ix.netcom.com

Provider: Chemical Specialties Manufacturers Association
Membership: Chemical manufacturers
Internet URL: www.csma.org
Name: Philip Klein
Position: Director, Fed. Legislative Affairs
Telephone: (202) 872-8110
Fax: (202) 872-8114
E-mail: csma@juno.com

Provider: Chlorine Chemistry Council
Membership: Chlorine producers
Internet URL: www.c3.org
Affiliations: Chemical Manufacturers Association
Name: Clifford Howlett
Position: Executive Director
Telephone: (703) 741-5000
Fax: (703) 741-6084
E-mail: info@c3.org

Provider: Color Pigments Manufacturers Association, Inc.
Membership: Color pigment manufacturers
Name: Doug Nelson
Position: Research and Regulatory Affairs
Telephone: (703) 684-4044
Fax: (703) 684-1795

Provider: Composite Fabricators Association
Membership: Composite distributors
Composite manufacturers
Composite suppliers
Composite users
Consultants
Educators
Retirees
Internet URL: www.cfa-hq.org
Name: Robert Lacovara
Position: Director, Technical Services
Name: Steve McNally
Position: Director, Government Affairs
Telephone: (703) 525-0511
Fax: (703) 525-0515
E-mail: cfa@cfa-hq.org

Provider: Cosmetic, Toiletry, and Fragrance Association
Membership: Personal care products distributors
Personal care products manufacturers
Raw materials suppliers
Internet URL: www.ctfa.org
Affiliations: Cosmetic Ingredient Review
Name: Joyce Graff
Position: Manager, Environmental Affairs
Telephone: (202) 331-1770
Fax: (202) 331-1969

Provider: Fertilizer Institute
Membership: Consultants
Fertilizer distributors
Fertilizer manufacturers
Raw materials suppliers
Name: Jim Skillen
Position: Dir., Envir. & Energy Programs
Telephone: (202) 675-8250
Fax: (202) 544-8123

Provider: Fire Retardant Chemical Association
Membership: Fire retardant materials producers
Fire retardant materials users
Name: Russel C. Kidder
Position: Executive Vice President
Telephone: (717) 291-5616
Fax: (717) 295-9637

Provider: Foodservice and Packaging Institute, Inc.
Membership: Disposable foodservice products distrib.
Disposable foodservice products manuf.
Equipment manufacturers
Raw materials suppliers
Internet URL: www.fpi.org
Name: Ann Mattheis
Position: Director, Public Affairs
Name: Richard B. Norment
Position: President
Telephone: (703) 527-7505
Fax: (703) 527-7512
E-mail: fooserv@crosslink.net

Provider: International Fabricare Institute
Membership: Drycleaners
Launderers
Internet URL: www.ifi.org
Name: Jim Patrie
Position: President
Telephone: (301) 622-1900
Fax: (301) 236-9320
E-mail: communications@ifi.org
Name: Toll Free Hotline (National)
Telephone: (800) 638-2627

Provider: International Slurry Surfacing Association
Membership: Asphalt slurry seal companies
Professionals involved in asphalt slurry seal
Internet URL: www.history.rochester.edu/issa
Affiliations: Foundation for Pavement Rehabilitation and Maintenance Research
Name: John Fiegel
Position: Executive Officer
Telephone: (202) 857-1160
Fax: (202) 857-1111
E-mail: issa@spa.com

Provider: Metal Finishing Suppliers Association
Membership: Metal finishing materials suppliers
Internet URL: www.metal-finishing.com/mfsa.htm
Name: Dr. Rebecca Spearot
Position: Environmental Affairs Chair
Name: Ken Hankinso
Position: Environmental Affairs Vice Chair
Name: Richard W. Crain
Position: Executive Director
Telephone: (630) 887-0797
Fax: (630) 887-0799

Provider: National Association of Chemical Distributors
Membership: Chemical distributors
Internet URL: www.nacd.com
Affiliations: National Association of Chemical Distributors Education Foundation
Name: Geoffrey O'Hara
Position: Director, Government Affairs
Name: William Allmond
Position: Director, Regulatory Affairs
Telephone: (703) 527-6223
Fax: (703) 527-7747

Provider: National Association of Chemical Distributors Education Foundation
Membership: Chemical distributors
Chemical manufacturers
Chemical marketers
Chemical recyclers
Chemical users
Internet URL: www.nacd.com/NACDEF
Affiliations: National Association of Chemical Distributors
Name: Lisa Capone
Position: Program Manager
Telephone: (703) 527-6223
Fax: (703) 527-7747

Provider: National Association of Chemical Recyclers
Membership: Chemical recyclers
Internet URL: www.bismarck.com/nacr/nacr.html
Affiliations: Cement Kiln Recycling Coalition
Name: H. Peter Nerger
Position: President
Telephone: (202) 296-1725
Fax: (202) 296-2530
E-mail: 103612,514@compuserve.com

Provider: National Association of Printing Ink Manufacturers, Inc.
Membership: Printing ink manufacturers
Internet URL: www.napim.org/napim
Affiliations: National Printing Ink Research Institute
Name: George Fuchs
Position: Environmental Manager
Telephone: (201) 288-9454
Fax: (201) 288-9453
E-mail: napim@napim.org

Provider: National Paint and Coatings Association
Membership: Chemical coatings manufacturers
Chemical coatings users
Paint distributors
Paint manufacturers
Paint users
Raw materials suppliers
Internet URL: www.paint.org
Name: J. Andrew Doyle
Position: Executive Director
Telephone: (202) 462-6272
Fax: (202) 462-8549
E-mail: npca@paint.org
Name: Sonya McDavid
Position: Asst. Dir. Environmental Affairs
Name: Stephen R. Sides
Position: Director, Health, Safety, & Env.

Provider: National Pest Control Association
Membership: Pesticides applicators
Internet URL: www.pestworld.com
Name: Bob Rosenberg
Position: Director of Government Affairs
E-mail: Bob_Rosenberg@msn.com
Name: Gene Harrington
Position: Manager of Government Affairs
E-mail: Harrington@pestworld.org
Name: Rob Lederee
Position: CEO & Executive Vice President
Telephone: (703) 573-8330
Fax: (703) 573-4116
E-mail: Lederer@pestworld.org

Provider: Pharmaceutical Research and Manufacturers of America
Membership: Research-based pharmaceutical operations
Internet URL: www.phrma.org
Affiliations: Pharmaceutical Research and Manufacturers of America Foundation
Name: Thomas White
Position: Associate Vice President
Telephone: (202) 835-3546
Fax: (202) 835-3597

Provider: Polyisocyanurate Insulation Manufacturers Association
Membership: Polyiso insulation manufacturers
Raw materials suppliers
Name: Rebecca Loyd
Position: Secretary
Telephone: (202) 624-2709
Fax: (202) 628-3856
E-mail: pima@buildernet.com

Provider: Powder Coatings Institute
Membership: Powder coating equipment suppliers
Powder coating facilities
Powder coating materials manufacturers
Powder coating materials marketers
Resin manufacturers
Internet URL: www.powdercoating.org
Name: Greg Bocchi
Position: Executive Director
Telephone: (703) 684-1770
Fax: (703) 684-1771
E-mail: pci-info@powdercoating.org

Provider: Rubber Manufacturers Association
Membership: Rubber product manufacturers
Tire manufacturers
Internet URL: www.rma.org
Affiliations: Scrap Tire Management Council
Tire Industry Safety Council
Name: Kristen Udowitz
Position: Communications and Marketing
Telephone: (202) 682-4800
Fax: (202) 783-3512
E-mail: kristen@tmn.com

Provider: Society of the Plastics Industry, Inc.
Membership: Plastics moldmakers
Plastics processors
Raw materials suppliers
Internet URL: www.socplas.org
Name: Pat Toner
Position: Technical Vice President
Telephone: (202) 974-5200
Fax: (202) 296-7005
E-mail: feedback@socplas.org
Name: Tom Southall
Position: Information Manager

Provider: Synthetic Organic Chemical Manufacturers Association
Membership: Chemical distributors
Chemical manufacturers
Chemical marketers
Service providers to the Chemical Industry
Internet URL: www.socma.com
Name: Cheryl O. Morton
Position: Director, Technical Affairs
Name: Graydon Powers
Position: President
Name: Mary J. Legatski
Position: Director, Government Relations
Name: Robert Grasso
Position: Vice President of Govt Affairs
Telephone: (202) 296-8577
Fax: (202) 296-8120
Name: Sherry L. Edwards
Position: Director, Public Policy

Provider: Vinyl Institute
Membership: Vinyl additives & modifiers manufacturers
Vinyl chloride monomer manufacturers
Vinyl manufacturers
Vinyl packaging manufacturers
Internet URL: www.vinylinfo.org
Affiliations: Society of the Plastics Industry, Inc.
Vinyl Environmental Resource Center
Name: Robert H. Burnett
Position: Executive Director
Telephone: (973) 898-6699
Fax: (973) 898-6633
E-mail: vi@socplas.org

TRADE ASSOCIATION - STATE

ALABAMA

Provider: Alabama Chemical Association
Membership: Chemical distributors
Chemical manufacturers
Chemical marketers
Affiliations: Chemical Manufacturers Association
Federation of State Chemical Associations
Name: Mark Fowler
Position: Executive Director
Telephone: (334) 260-7772
Fax: (334) 260-7775
E-mail: Alachem@aol.com

CALIFORNIA

Provider: Chemical Industry Council of California
Membership: Chemical distributors
Chemical manufacturers
Chemical marketers
Chemical recyclers
Affiliations: Chemical Manufacturers Association
Federation of State Chemical Associations
Name: Steve Murril
Position: Executive Director
Telephone: (916) 564-9394
Fax: (916) 564-9398
E-mail: sdmcicc@ix.netcom.com

DELAWARE

Provider: Chemical Industry Council of Delaware
Membership: Chemical distributors
Chemical manufacturers
Chemical marketers
Chemical recyclers
Affiliations: Chemical Manufacturers Association
Federation of State Chemical Associations
Name: William Wood
Position: Executive Director
Telephone: (302) 655-4707
Fax: (302) 655-4374
E-mail: woodbyrd@lansol.net

FLORIDA

Provider: Florida Manufacturing and Chemical Council
Membership: Chemical distributors
Chemical manufacturers
Internet URL: www.fmcc.org
Affiliations: Chemical Manufacturers Association
Federation of State Chemical Associations
Name: Nancy Stephens
Position: Executive Director
Telephone: (850) 224-8141
Fax: (850) 224-5283
E-mail: fmcc@internetmci.com

ILLINOIS

Provider: Chemical Industry Council of Illinois
Membership: Chemical distributors
Chemical manufacturers
Chemical marketers
Chemical recyclers
Affiliations: Chemical Manufacturers Association
Federation of State Chemical Associations
Name: Jack Toslosky
Position: Executive Director
Telephone: (847) 823-4020
Fax: (847) 823-4033
E-mail: cicirmt@icsp.net

KENTUCKY

Provider: Chemical Industry Council of Associated Industries of Kentucky
Membership: Chemical distributors
Chemical manufacturers
Chemical marketers
Chemical recyclers
Internet URL: www.aik.org
Affiliations: Associated Industries of Kentucky
Chemical Manufacturers Association
Federation of State Chemical Associations
Name: C. Greg Higdon
Position: Acting Executive Vice President
Telephone: (502) 491-4737
Fax: (502) 491-5322
E-mail: aik@aik.org

LOUISIANA

Provider: Louisiana Chemical Association
Membership: Chemical distributors
Chemical manufacturers
Chemical marketers
Internet URL: www.lca.org
Affiliations: Chemical Manufacturers Association
Federation of State Chemical Associations
Louisiana Chemical Industry Association
Name: Dan Borne
Position: President
Telephone: (504) 344-2609
Fax: (504) 344-1007
E-mail: dan@lca.org
Name: Henry T. Graham, Jr.
Position: Director, Environ. & Legal Affairs

MARYLAND

Provider: Chemical Industry Council of Maryland
Membership: Chemical distributors
Chemical manufacturers
Chemical marketers
Chemical recyclers
Affiliations: Chemical Manufacturers Association
Federation of State Chemical Associations
Name: Roy Vaillant
Position: Managing Director
Telephone: (410) 974-4797
Fax: (410) 974-4071
E-mail: cicmd@aol.com

MASSACHUSETTS

Provider: Massachusetts Chemical Technology Alliance
Membership: Chemical distributors
Chemical engineering firms
Chemical manufacturers
Chemical marketers
Chemical recyclers
Chemical users
Affiliations: Chemical Manufacturers Association
Federation of State Chemical Associations
Name: Michael DeVito
Position: Executive Director
Telephone: (617) 451-6282
Fax: (617) 695-9568

MICHIGAN

Provider: Michigan Chemical Council
Membership: Chemical distributors
Chemical manufacturers
Chemical marketers
Internet URL: www.mccinfo.org
Affiliations: Chemical Manufacturers Association
Federation of State Chemical Associations
Name: Andrew Such
Position: Executive Director
Telephone: (517) 372-8898
Fax: (517) 372-9020
E-mail: MCCinfo@voyager.net

MINNESOTA

Provider: Minnesota Chemical Technology Alliance
Membership: Chemical distributors
Chemical engineers
Chemical manufacturers
Chemical marketers
Chemical recyclers
Affiliations: Chemical Manufacturers Association
Federation of State Chemical Associations
Name: Joel Carlson
Position: Director
Telephone: (612) 332-8063
Fax: (612) 332-2089

MISSOURI

Provider: Chemical Council of Missouri
Membership: Chemical distributors
Chemical manufacturers
Chemical marketers
Chemical recyclers
Internet URL: www.ccmo.org
Affiliations: Chemical Manufacturers Association
Federation of State Chemical Associations
Name: Randy Scherr
Position: Executive Administrator
Telephone: (573) 636-2822
Fax: (573) 636-9749
E-mail: rjscherr@sockets.net

NEW JERSEY

Provider: Chemical Industry Council of New Jersey
Membership: Chemical distributors
Chemical manufacturers
Chemical marketers
Chemical recyclers
Internet URL: www.cicnj.org
Affiliations: Chemical Manufacturers Association
Federation of State Chemical Associations
Name: Hal Bozarth
Position: Executive DIrector
Telephone: (609) 392-4214
Fax: (609) 392-4816
E-mail: cicinjhal@aol.com

NEW YORK

Provider: Alliance of Chemical Industries of New York State, Inc.
Membership: Chemical manufacturers
Service providers to the Chemical Industry
Affiliations: Chemical Manufacturers Association
Federation of State Chemical Associations
Name: Diana Hinchcliff
Position: Executive Director
Telephone: (518) 427-7861
Fax: (518) 427-7008
E-mail: gtemcic@aol.com

NORTH CAROLINA

Provider: Manufacturers and Chemical Industry Council of North Carolina
Membership: Chemical distributors
Chemical manufacturers
Chemical marketers
Chemical recyclers
Internet URL: www.mcicnc.org
Affiliations: Chemical Manufacturers Association
Federation of State Chemical Associations
Name: George Everett
Position: Executive Director
Telephone: (919) 834-9459
Fax: (919) 834-8268

APP

E-mail: gtenccic@aol.com

OHIO

Provider: Ohio Chemical Council
Membership: Chemical distributors
Chemical manufacturers
Chemical marketers
Chemical recyclers
Internet URL: www.ohiochem.org
Affiliations: Chemical Manufacturers Association
Name: Peggy Smith
Position: Secretary/Executive Director
Telephone: (614) 224-1730
Fax: (614) 224-5168
E-mail: ohchem@infinet.com

PENNSYLVANIA

Provider: Pennsylvania Chemical Industry Council
Membership: Chemical engineers
Chemical manufacturers
Chemical marketers
Chemical recyclers
Internet URL: www.pcic.org
Affiliations: Chemical Manufacturers Association
Federation of State Chemical Associations
Name: David W. Patti
Position: President
Telephone: (717) 232-6681
Fax: (717) 232-4684
E-mail: info@pcic.org

TENNESSEE

Provider: Chemical Industry Committee, Tennessee Association of Business
Membership: Chemical distributors
Chemical manufacturers
Chemical marketers
Chemical recyclers
Internet URL: www.tennbiz.org
Affiliations: Chemical Manufacturers Association
Federation of State Chemical Associations
Name: Josh Ellis
Position: Director of Environmental Affairs
Telephone: (615) 256-5141
Fax: (615) 256-6726
E-mail: info@tennbiz.org

TEXAS

Provider: Texas Chemical Council
Membership: Chemical distributors
Chemical manufacturers
Chemical marketers
Chemical recyclers
Internet URL: www.txchemcouncil.org
Affiliations: Chemical Manufacturers Association
Federation of State Chemical Associations
Name: James Woodrick
Position: President
Telephone: (512) 477-4465
Fax: (512) 477-5387
E-mail: woodrick@txchemcouncil.org

WEST VIRGINIA

Provider: Chemical Industry Committee, West Virginia Manufacturers Association
Membership: Chemical distributors
Chemical manufacturers
Chemical marketers
Chemical recyclers
Internet URL: www.wvma.com
Affiliations: Chemical Manufacturers Association
Federation of State Chemical Associations
Name: Brenda Nichols Harper
Position: Director of Chemical Affairs
Telephone: (304) 342-2123
Fax: (304) 342-4552
E-mail: wvmacic@citynet.net

UNIVERSITY - NATIONAL

Provider: Center for Clean Products and Clean Technologies at the University of Tennessee
Membership: Academic researchers
Internet URL: www.ra.utk.edu/eerc/clean2.html
Affiliations: University of Tennessee - Knoxville
University of Tennessee Energy, Environment, and Resources Center
Name: Gary A. Davis
Position: Director
Telephone: (423) 974-4251
Fax: (423) 974-1838
E-mail: davisg@eerc.gw.utk.edu

Provider: Center for Clean Technology at UCLA
Membership: Academic researchers
Internet URL: www.cct.seas.ucla.edu
Affiliations: University of California- Los Angeles
Name: Dr. Selim Senkan
Position: Director
Telephone: (310) 206-3071
E-mail: cct@seas.ucla.edu

Provider: Hazardous Substance Research Center South & Southwest
Membership: Academic researchers
Internet URL: www.eng.lsu.edu/center/hsrc.html
Affiliations: Georgia Institute of Technology
Louisiana State University
Rice University
U.S. Environmental Protection Agency
Name: Danny D. Reible
Position: Director
Telephone: (504) 388-6770
Fax: (504) 388-5043
E-mail: cmreib@lsuvm.sncc.lsu.edu

Provider: Indiana Pollution Prevention and Safe Materials Institute
Membership: Academic researchers
Internet URL: www.ecn.purdue.edu/IPPI/
Affiliations: Purdue University
Name: Lynn A. Corson Ph.D.
Position: Director
Telephone: (317) 494-6450
Fax: (317) 494-6422
E-mail: corsonl@ecn.purdue.edu

Provider: Massachusetts Institute of Technology Environmental Technology and Public Policy Program
Membership: Academic researchers
Internet URL: web.mit.edu/dusp/etpp/index-t.html
Affiliations: Massachusetts Institute of Technology
Name: David Laws
Position: Program Adminstrator
Name: Lawrence Susskind
Position: Co-Principal Investigator
Telephone: (617) 256-5724
Fax: (617) 253-7402
E-mail: etp@mit.edu
Name: Vicki Norberg-Bohm
Position: Co-Principal Investigator

Provider: Massachusetts Institute of Technology Program in Technology, Business, and the Environment
Membership: Academic researchers
Internet URL: web.mit.edu/ctpid/www/tbe/overview.html
Affiliations: Massachusetts Institute of Technology
Name: Dr. John Ehrenfeld
Position: Director
Telephone: (617) 253-5724
Fax: (617) 253-7402
E-mail: Jehren@mit.edu

UNIVERSITY - STATE

Provider: University of Tennessee Waste Management Research and Education Institute
Membership: Academic researchers
Internet URL: www.ra.utk.edu/eerc/wmrei2.html
Affiliations: University of Tennessee
Name: Dr. Gary Sayler
Position: Acting Director
Telephone: (423) 974-4251
Fax: (423) 974-1838
E-mail: sayler@utk.edu

A

Air, 12, 13, 14, 17, 18, 19, 20, 21, 25, 26, 27, 28, 29, 36, 57, 67, 68, 71, 74, 91, 92
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COMPLIANCE ASSISTANCE FOR THE CHEMICAL INDUSTRY

	Hotlines	Hot Links
CAA	**Air Risk Information Center** (919) 541-5384 **Control Technology Center (CTC)** (919) 541-5432	**Control Technology Center (CTC)** http://www.epa.gov/oar/oaq_ttn.html **EPA's Chemical Emergency Preparedness and Prevention Office (CEPPO)** http://www.epa.gov/swercepp/ **Technology Transfer Network** http://www.epa.gov/ttn
CWA	**Stormwater Hotline** (703) 821-4823	**EPA's Office of Water** http://www.epa.gov/ow/ **Wastewater Treatment Information Exchange** Telnet: fedworld.gov (select #37 – WTIE-BBS)
EPCRA	**RCRA/UST, Superfund & EPCRA Hotline** (800) 424-9346 **TRI User Support Service** (202) 260-1531	**OPPT-TRI** http://www.epa.gov/opptintr/tri/ttpubacc.htm **Right-to-Know Network** http://www.rtk.net **TRI database on TOXNET** http://hlm.nih.gov
Multimedia/ General	**CFR On-line** http://www.access.gpo.gov/nara/cfr/index.html **Envirofacts Warehouse** http://www.epa.gov/enviro/html/ef_home.html	**EPA's Chemical Industry Branch Home Page** http://www.epa.gov/oeca/ccsmd/ **Federal Register On-line** http://www.access.gpo.gov/su_docs/aces/aces140.html **Media-specific Tools** http://www.epa.gov/epahome/dmedia.htm
P2	**National Pollution Prevention Roundtable P2 Hotline** (888) 745-7272	**Enviroene** http://es.epa.gov **National Pollution Prevention Roundtable** http://www.p2.org
RCRA/ UST/ Superfund	**Hazardous Waste Ombudsman Program** (800) 262-7937 **RCRA/UST, Superfund & EPCRA Hotline** (800) 424-9346	**Alternative Treatment Technologies Information Center (ATTIC)** http://www.epa.gov/bbsnrmrl/attic/atticn.html **EPA Office of UST** http://www.epa.gov/OUST **Federal Remediation Technologies Roundtable** http://www.frtr.gov **Hazardous Waste Clean-up Information** http://www.clu-in.com
TSCA	**TSCA Hotline** (202) 554-1404	**Chemicals on Reporting Rules database** http://www.epa.gov/opptintr/CORR/

Sources for Documents

EPA libraries - Information Resources Center
Tel: (202) 260-5922
Fax: (202) 260-6257
If a resource has an EPA number, the Information Specialist will try to place an order at an EPA library possessing the item.

Government Printing Office (GPO)
Tel: (202) 512-1800
Fax: (202) 512-2250
URL: http://www.access.gpo.gov/su_docs/index.html
Address: Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954
GPO prints, binds, and distributes the publications of all three branches of the federal government. GPO sells through mail orders and government bookstores approximately 20,000 different publications.

National Center for Environmental Publications and Information (NCEPI)
Tel: (800) 490-9198
Fax: (513) 489-8695
URL: http://www.epa.gov/ncepihom/orderpub.html
Address: NCEPI, P.O. Box 42419, Cincinnati, OH 45242-2419
NCEPI is a central repository for all EPA documents with over 5,500 titles in paper and/or electronic format.

National Environmental Information Service (NEIS)
Tel: (800) 729-1964
Fax: (800) 776-6904
URL: http://www.neis.com/neis.html
Address: NEIS, 3154B College Dr., Suite 522, Baton Rouge, LA 70808
NEIS acts as a central coordinating agent, providing one-call access to the nearly two dozen sources of documents that the EPA maintains. By providing a comprehensive service, the NEIS precludes the need for long searches and calls to numerous agency distribution points, including EPA and OSHA hotlines, libraries, dockets, and regional offices.

National Environmental Publications Information (NEPI)
URL: http://www.epa.gov/clariton/index.html
EPA's largest electronic documents site, with over 6,000 documents available for downloading.

National Technical Information Service (NTIS)
Tel: (703) 605-6000
Fax: (703) 321-8547
E-mail: orders@ntis.fedworld.gov
URL: http://www.ntis.gov
Address: NTIS, 5285 Port Royal Road, Springfield, VA 22161
NTIS manages collections covering hundreds of thousands of printed publications, software, standards, and audiovisual material developed by the U.S. government.

Office of Water Resource Center
Tel: (202) 260-7786
Distributes materials produced by the Offices of Ground Water and Drinking Water, Science and Technology, & Wastewater Mgt.

RCRA Information Center
Tel: (703) 603-9230
This center houses documents used in writing the regulations and EPA publications that guide the public on solid waste issues.

"Must-Have" Documents

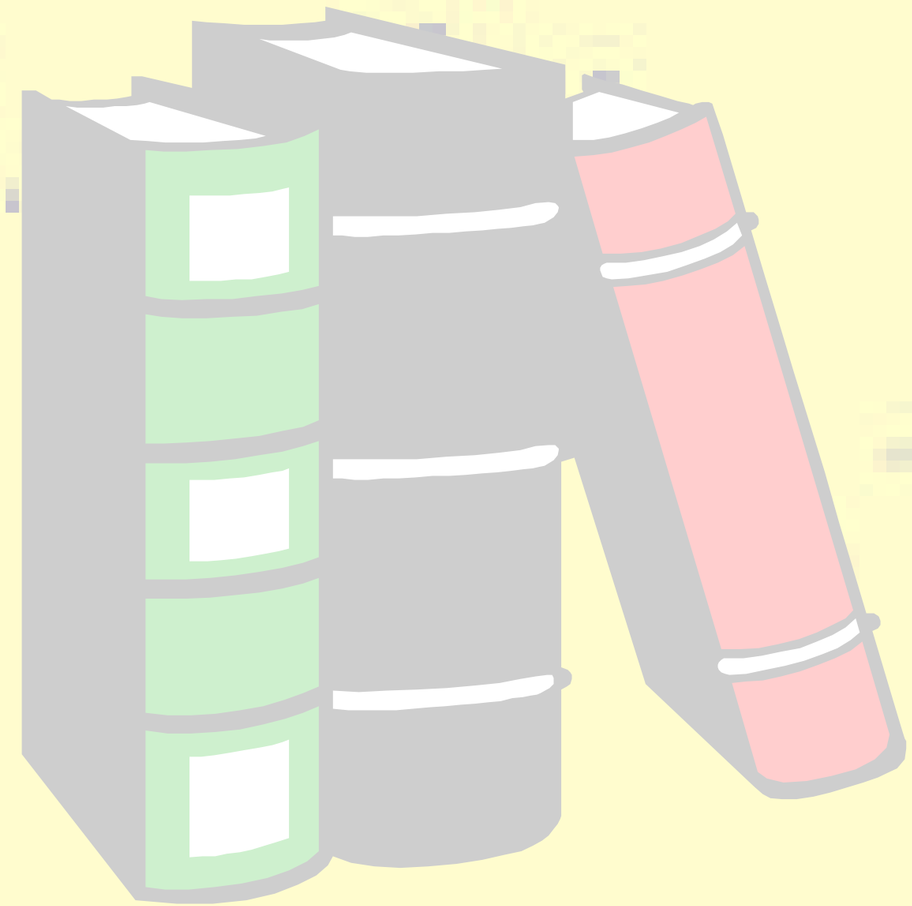
Chemical Industry Baseline Compliance Report (NCEPI)
Chemical Industry Compliance Improvement Tool (NCEPI)
General Enforcement Policy Compendium (NEIS, NTIS)
HON Inspection Tool (NCEPI)
Inspection Manual: Federal Equipment Leak Regulations for the Chemical Manufacturing Industry. Volumes 1-3 (NCEPI)

Process-Based Self-Assessment Tool for the Organic Chemical Industry (NCEPI)
Regulatory Compliance Summary Matrices for Chemical Sectors (NCEPI)
- Inorganic Chemical Manufacturing
- Paints, Varnishes, Lacquers, Enamels, and Allied Products Manufacturing
- Perfumes, Cosmetics, and Other Toilet Preparations Manufacturing
- Pharmaceutical Manufacturing
- Plastics Materials, Synthetic Resins and Nonvulcanizable Elastomers

Sector Notebooks: (available from regional EPA offices, GPO, or download from http://es.epa.gov/comply/sector/index.html)
- Profile of the Inorganic Chemical Industry
- Profile of the Organic Chemicals Industry
- Profile of the Petroleum Refining Industry
- Profile of the Pharmaceutical Industry
- Profile of the Plastic Resin and Man-made Fiber Industry

COMPLIANCE ASSISTANCE FOR THE CHEMICAL INDUSTRY

- Profile of the Rubber and Plastic Industry



COMMENT FORM – CHEMICAL INDUSTRY COMPLIANCE IMPROVEMENT TOOL

As part of U.S. EPA's continuous improvement, comments and suggestions for the *Chemical Industry Compliance Improvement Tool* are welcomed.

Instructions: Tear out this page and fill in the following fields. Then fold as indicated, tape closed and stick a stamp. Voila! It's ready to be mailed. Alternately, fax this form to Richard Satterfield at (202) 564-0009.

Name:_____

Company, agency or organization:_____

Address:_____

_____

Telephone number:_____

Fax number:_____

E-mail address:_____

Comments:_____

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Thank you for taking the time to help improve this document.

If you need additional copies of this document, please order them directly from the National Center for Environmental Publications and Information (see page 2 of this manual.)

Fold here

Place first class stamp here.

Richard Satterfield
U.S. Environmental Protection Agency
401 M Street, SW
Mail code 2224A
Washington, DC 20460

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