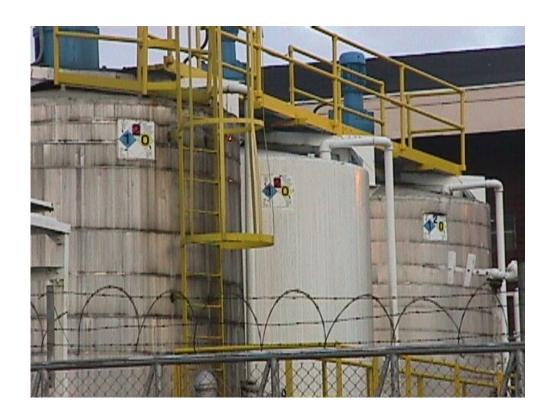


Chemical Industry Compliance Improvement Tool



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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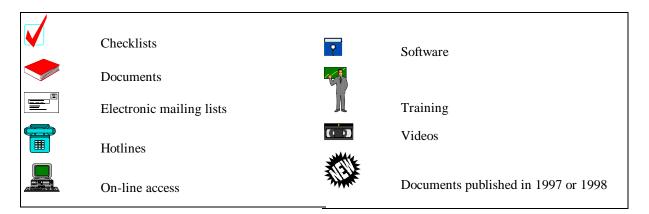
PURPOSE

INTRO

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:



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 vice, 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

8:00 a.m. - 8:00 p.m. (ET), M-F Hours:

URL: http://www.ntis.gov orders@ntis.fedworld.gov E-mail:

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"



....

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

MUSTEPA Office of Compliance Sector Notebook Project: Profile of the Petroleum Refining Industry.

HAVE Stee:

U.S. EPA, Washington, DC, Office of Compliance
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



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

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

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



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



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)



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
EPA/305/B-96/005
Volume I provides

HAVE regulations promulgated under Parts 60, 61, and 63 of CAA and Parts 264 and 265 of RCRA, including tions 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.

Volume I provides inspection procedures for determining compliance for equipment leak

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: IIS EDA

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)

E

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)





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)





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.

Enviro\$en\$e

URL: http://es.epa.gov

Abstract: Enviro\$en\$e, 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 Enviro\$en\$e is the data base umbrella architecture for "solvent alternatives." Enviro\$en\$e information may be used to plement pollution prevention and solvent substitution programs, ensure compliance with environmental laws and regulations, solve enforcement cases, and develop research projects. Enviro\$en\$e 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.



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

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:

- C Set National Ambient Air Quality Standards (NAAQS) for emissions of substances posing a general threat to air quality for criteria pollutants.
- C Set primary standards relating to human health and secondary standards for welfare effects.
- C Set emissions standards for industries called National Emissions Standards for Hazardous Air Pollutants (NESHAPs).
- C Set minimum national emissions standards for new sources of pollution in specific categories (New Source Performance Standards).
- C 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.
- C Established new NAAQS compliance dates and enforcement mechanisms.
- C 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

- C Targeted reductions in emissions of sulfur dioxide and nitrogen oxides.
- C Established non-attainment areas for cities not meeting federal ozone standards.
- C Set specific targets for reducing tailpipe emissions of hydrocarbons and nitrogen oxides and for the use of cleaner gasolines.
- C 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.
- C 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.



General



** Reminder ** - For the most up-to-date information, check U.S. EPA's Enviro\$en\$e 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
Global Warming/Ozone	22
Inspection/Compliance	25
Permitting	28
Sampling/Monitoring	



GENERAL



CAA Acid Rain Hotline (202)

GeneralHours: (202) 233-9620 24 hours/day, 7 days/wk

Instructions: Dial the main hotline number and isten 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 The CTC was established in 1987 to Abstract: 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-theclock access to CTC services and products.



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

This database contains U.S. EPA Abstract: 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) O&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.



$Control\ Technology\ Center\ (CTC)$

URL.

http://www.epa.gov/oar/oaq_ttn.

htm

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.

Real Time Air Pollution Data

'A A URL: http://www.epa.gov/realtime/ General^{Abstract}: Links to sites containing up-to-theminute or frequently updated information from air monitors and other sources.

Simplified List of Nonattainment Areas

URL: http://www.epa.gov/airs/nonattn.html The Clean Air Act and Abstract: 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 (919) 541-5742 (14.4 kps) Modem: Off-line: 8:00 a.m. - 12:00 noon (EST)

Monday

(919) 541-5384 Help:

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.



Clean Air Act of 1990: An Introductory Guide to Smart Implementation.

Clean Air Act Advisory Committee, Author:

Washington, DC

Date: 1990 5 Pages:

Report No.: EPA/450/K-92/003

OCLC No.: 28830023 Source: **OCLC**

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:

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

EPA's Risk Management Program: How Does It Affect Chemical Distributors?



Preparedness and Prevention Office,

Washington, DC

Date: **April** 1998

Pages:

EPA/550/F-98/011 Report No.:

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

Funding Sources for Implementing the Risk Management Program - Factsheet.

U.S. EPA, Office of Solid Waste and Author:

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/f

unding.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/factsh

eets/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

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_c

aa/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

This guide is a resource on Federal Abstract: environmental regulations for small-to-mediumsized 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 selfassessment. 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

CAA General



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

Source: NCEPI

Risk Management Programs under CAA Section 112(r) - Guidance for Implementing Agencies.

General Author: U.S. EPA, Chemical Emergency Preparedness and Prevention Office

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

c.iitiii#Teciiiicai Guidanee

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



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]

Clean Air Act Sources

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





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

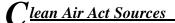
Report No.: EPA/550/B-97/005

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





EMISSIONS



Compilation of Air Pollutant Emission Factors. CAA Volume 1. Stationary Point and Area Sources. Emissions Fifth Edition. Ruthor:

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

379 Pages:

Control No.: 420325543 NTIS No.: PB94-177128 Report No.: EPA/450/R-94/020

The purpose of this document is to Abstract: 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.

NTIS Source:

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.

PB92-180009 NTIS No.: 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.

NTIS Source:

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

207 Pages:

Date: October 1993 NTIS No.: PB94-128519INZ Report No.: EPA/453/D-93/057

NTIS Source:



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

Date:

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 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.



Locating and Estimating Air Emissions From

NTIS. NEIS

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

Source:

CONTRACTOR	DEDODENO	D 4 777
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	EPA/454/R-93/040	Sep 93
compounds		
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	EPA/454/R-93/053	Oct 93
incinerators		
Mercury & mercury cmpds	EPA/454/R-93/023	Sep 93
r		



	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
CAA	Phosgene	EPA/450/4-84/007I	Sep 85

Emissions Polychlorinated biphenyls EPA/450/4-84/007N May 87
Polycyclic organic matter EPA/450/4-84/007P Sep 87
Sewage sludge EPA/450/2-90/009 May 90 incinerators
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

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

Xylene

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



Stratospheric Ozone Information Hotline

Tel: (800) 296-1996 (toll free)

Global Tel: (301) 614-3396 Fax: (301) 231-6377 10:00 a.m. - 4:0

Varming Hours: 10:00 a.m. - 4:00 p.m. (EST) M-F

Ozone 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.



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.



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]



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 but are to determine if synthesis routes of such

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





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 Global 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 Warming insuring compliance with these regulations. A brochure on the video can also be ordered (EPA/305/V-

Ozone 97/007).

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





INSPECTION/COMPLIANCE



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

CAA
Inspection/
Compliance

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



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

CAAAstract: PB91-233650
The document contains the field

Inspection 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.

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

NCEPI

Date: 1989

Source:

Call No.: KF3775.M8 1989

OCLC No.: 20533402 Source: OCLC





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

Author: U.S. EPA, Chemical Manufacturers Association

Date: 1996

EPA/300/B-96/002 Report No.:

This self-audit checklist helps members of the regulated community determine their compliance Compliance Abstract: 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]





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:

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



CAA Federal Operating Permits Program under Title V of the Clean Air Act: Final Report.

Permittinguthor:
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



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



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.

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

Source:

Report No.: EPA/454/R-93/042 NTIS No.: PB94-128535INZ

NTIS

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





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

SamplingApstract: 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-**Monitoring** endly interface. It provides CAS numbers, regulatory lists, regulatory limits, and method abstracts. EMMI

number; regulatory origin; custodial organization; short or full title of the method; and matrix.

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

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 online 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

GENERAL



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.

Envire Sense

** Reminder ** - For the most up-to-date information, check U.S. EPA's Enviro\$en\$e 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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CWA General



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-todate calendar current events, press releases and announcements. It links to programs of interest, publications, legislation, databases, and other topics.

Office of Water Resource Center General_{URL}: http://www.epa.gov/0

http://www.epa.gov/OST/rescnter.

html

E-mail: waterpubs@epamail.epa.gov

See Hotlines section in this chapter. Abstract:

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)

(800) 544-1936 Modem:

Telnet: fedworld.gov and select #37 WTIE-

> BBS from the Energy and **Environment Gateway**

Tel: (800) 624-8301 (304) 293-3161 Fax:

Hours: 8:00 a.m. - 5:00 p.m. (EST) M-F

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.

significant provisions of the Clean Water Act as amended by the Water Quality Act of 1987.



Clean Water Act (excluding Section 404). **Environmental Guidance Program Reference Book - Revision 6.**

Oak Ridge National Lab., TN; Author:

Department of Energy,

Washington, DC

Date: January 1993

Pages: 578

Report No.: ORNL/M-2263 NTIS No.: DE93013751INZ

Source: **NTIS**

Department of Energy,

NTIS

Washington, DC

Clean Water Act (Section 404) and Rivers and

Harbors Act (Sections 9 and 10). Environmental

Guidance Program Reference Book, Revision 4.

Oak Ridge National Lab., TN;

Date: March 1992

Pages: 196

Source:

Author:

Report No.: ORNL/M-1573 NTIS No.: DE92016882INZ

Source: NTIS

Clean Water Act - A Primer.

Author: U.S. EPA, Washington, DC,

Office of Water

April 1992 Date:

Pages:

NTIS No.: PB94-102084INZ

The primer is based on documents prepared by the U.S. EPA and the Bureau of National Affairs, and covers a number of the

Clean Water Act Section 403 - Compendium.

U.S. EPA, Washington, DC, Author:

Office of Wetlands, Oceans and

Watersheds

Clean Water Act Sources

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;

Source: NCEPI, NTIS

Final Guidance for Implementation of Requirements under Section 304(1) of the Clean Water Act as Amended.

Date of Publication; and Publication Contact. The

following three appendices are also included:

Legal Cases; Bulletins and Fact Sheets; and

Courses, Conferences, and Workshops.

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

This guide provides specific Abstract: 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



Clean Water Act Sources

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 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



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

Inspection/

Compliance

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 CWA permittees so that U.S. EPA reviewers can validate

Inspection, the data. Chapter 3 provides guidance concerning the review of data collected and reported in Compliance 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

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



NPDES Compliance Monitoring Inspector Training Module: Biomonitoring.

Author: U.S. EPA, Washington, DC, Office

of Water Enforcement and Permits

Date: August 1990

Pages:

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

CWA

Inspection/

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 Compliance during an inspection and provides legal

information to assist inspectors in performing their duties.

Source: NTIS, NEIS

NPDES Compliance Monitoring Inspector Training Module: Overview.

Author: U.S. EPA, Washington, DC, Office

of Water Enforcement and Permits

Date: August 1990

114 Pages: 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

1023 NEIS No.:

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



CWA Section 403: Procedural and Monitoring Guidance.

Author: U.S. EPA, Washington, DC, Office

of Wetlands, Oceans and

Watersheds March 1994

 $\mathbf{V}\mathbf{A}^{Pages:}$ 343

Date:

*Permitting*_{eport} *No.*: PB94-181591 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

 2002
 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

The Office of Water has initiated an Abstract: 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



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.

U.S. EPA, Washington, DC, Office Author:

of Enforcement and Compliance

Assurance

CWADate: December 1994

Sludge Pages: NTIS No.: 104

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



Stormwater Hotline

Tel: (703) 821-4823

This U.S. EPA-sponsored, contractor-operated hotline is a source of additional information Abstract: about the Section 402 stormwater program that requires permits for stormwater discharges.



Storm Water

Guidance for the Preparation of Discharge Monitoring Reports: Facilities Required to **Report Semi-Annual Results under NPDES Storm Water General Permits.**

Pages:

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** In addition, this manual provides technical information on sample collection procedures. NCEPI. NTIS Source:

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

NCEPI, NEIS Source:

Guidance Manual for the Preparation of NPDES Permit Applications for Storm Water Discharges Associated with Industrial Activity.

U.S. EPA, Washington, DC, Office Author:

of the Assistant Administrator for

Water

April 1991 Date:

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.

NPDES Storm Water Question and Answer Document. Volumes 1 and 2.

March 1992 (Vol. 1), July 1993 Date:

(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)

Questions and answers about storm Abstract: 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.

December 1991 Date:

Pages: 11 **NEIS No.:** 366

This report summarizes Abstract: 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.

Water Source: NEIS

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 RIGHTTO-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.

- C 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.
- C Requires industries to report on the presence and release of specified hazardous substances.
- C 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



GENERAL



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.



** Reminder ** - For the most up-to-date information, check U.S. EPA's Enviro\$en\$e 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.

EPCRA TOC
General43
Emergency Planning/Notification47
Inspection/Compliance48
Release Reporting49



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)

http://www.epa.gov/opptintr/

Abstract: This site is the home page for U.S.

EPCREA's Office of Pollution Prevention and Toxics, which strives to protect and improve human health General 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

Right-to-Know Network

URL: http://www.rtk.net

Telnet: rtk.net

toxic substances.

URL:

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



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

Author: U.S. EPA, Washington, DC, Office

of Enforcement and Compliance

EPCRA

General

Assurance

Date: December 1997

400 Pages:

Report No.: EPA/305/B-97/002

Abstract: This guide is a resource on Federal environmental regulations for small-to-mediumsized 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 selfassessment. 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)

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. **NCEPI** Source:

Federal Chemical Regulation: TSCA, EPCRA and the Pollution Prevention Act.



Lewis, Cynthia A. Author:

Publisher: Bureau of National Affairs,

Washington, DC

Date: 1997 Pages: 551 LCCN: 97013480

ISBN: 1570180423 (hardcover) Call No.: KF3958.L49 1997

OCLC Source:



Mergency Planning and Community Right-to-Know Act Sources

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**

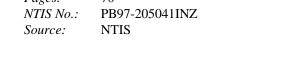
Section 313 Emergency Planning and Community Right-to-Know Act - Guidance for Solvent Recovery Facilities.

Author: U.S. EPA, Washington, DC, Office

of Pollution Prevention

Date: July 1997

70 Pages:





RCRA, Superfund and EPCRA Hotline EPCR Maining Module. Introduction to:

General 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 June 1997

Pages: 13

Date:

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 June 1997

Date:

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.

The module explains the purpose, Abstract: 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



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





RCRA/UST, Superfund, and EPCRA Hotline Training Module: Introduction to: Emergency Planning Requirements, EPCRA Sections 301-303; 40 CFR Section 355.30).

EPCRA

Planning/

Notification

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



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





PCRA 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



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

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).

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

EPCR which suppliers must notify their customers, who **Release** must be notified, what form the notice must take, and when it must be sent.

Reportingurce: 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 EPA/550/B-96/015 Report No.:

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



EPCRA Section 313 Roadmaps Database. (Version 2.2) (for Microcomputers).

U.S. EPA, Washington, DC, Office Author:

of Pollution Prevention, and Toxics

September 1991 Date:

Notes: Documentation may be ordered as

PB92-169523.

Format: Two 3 1/2" 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).

U.S. EPA, Washington, DC Author:

Date: **April** 1995

Format:

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. 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

Regency Planning and Community Right-to-Know Act Sources

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

The datafile is on two CD-ROM. Notes:

> 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.

NTIS Source:





Page 51 September 1998



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

EPCR requirements of EPCRA. NCEPI

Release

Reporting CRA, 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

- C Banned land disposal of untreated hazardous waste after May 1990.
- C Prohibited or phased out incineration of toxic materials in industrial and apartment furnaces.
- C Required groundwater monitoring at land disposal facilities.
- C Authorized a new corrective action program to require generators and TSDs to perform cleanups of hazardous waste releases at permitted facilities.
- C 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/aces/140.html

GENERAL



RCRA General

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.

Envire Sense Common Sense Solutions to Environmental Problems

** Reminder ** - For the most up-to-date information, check U.S. EPA's Enviro\$en\$e 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/US	ST
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Resource Conservation and Recovery Act, Superfund, and Underground Storage Tank Sources

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.



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
 RCRA astes, underground storage tanks, and

General brownfields.

Federal Register notices

URL: http://www.epa.gov/EPA-WASTEAbstract: This site has Federal Registernotices, 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.



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-mediumsized 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 selfassessment. 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 RCRArocess and associated environmental legislation.

General 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 fiveyear 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



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 nonsensitive compliance and enforcement data collected by compliance program personnel are included on the tapes.

Source: NTIS



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, 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).

U.S. EPA, Washington, DC, Office Author:

of Solid Waste and Emergency

Response

July 1996 Date:

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

July 1996 Date:

Pages:

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.

U.S. EPA, Washington, DC, Office Author:

of Emergency and Remedial

Response

1997 Date: Pages: 26

Notes: Paper copy available as an ongoing

> subscription. Single copies also available in paper copy or

microfiche.

PB97-963229 NTIS No.:

Report No.: EPA/540/R-97/017; OSWER-

9205.5-09

This module explains the purpose, Abstract: 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.

U.S. EPA, Washington, DC, Office Author:

of Solid Waste and Emergency

Response

Date: July 1996

Pages: 29

Supersedes PB96-780432. See also Notes:

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

RCRAquivalent method. It specifies the purpose of

General 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

Resource Conservation and Recovery Act, Superfund, and Underground Storage Tank

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

1996 Date: 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, RCRA ombustion, and landfilling.

General Source: NTIS

Training Module for RCRA Subpart CC: 40 **CFR Parts 264 and 265.**

Chemical Manufacturers Author:

Association

1996 Date: 99 Pages: 601004C Report No.:

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



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.

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.

RCRA Clean-up

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.





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.

Date:

Author: U.S. EPA, Washington, DC, Office

of Emergency and Remedial

Response 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.

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.

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



Generation and Management of CESQG

Waste.

Author: U.S. EPA, Washington, DC, Office

of Solid Waste

1994 Date: 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 RCRAources of information. Appendix B lists the

requirements for CESQGs in all 50 states and the Generators strict 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**

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.

Understanding the Hazardous Waste Rules: A Handbook for Small Businesses: 1996 update.

Report No.: EPA/530/K-95/001

NTIS

Source: **NCEPI**

Source:

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



Biennial Reporting System (BRS) Data: Generation and Management of Hazardous Waste, 1995 (on CD-ROM).

U.S. EPA, Washington, DC, Office Author:

of Solid Waste

1995 Date:

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.

Resource Conservation and Recovery Act, Superfund, and Underground Storage Tank Sources

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



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:

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, RCRA containment buildings, and on drip pads are Alentified, and CFR sections covering

Generators as other applicable CFR sections, are cited.

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/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



Advanced RCRA Inspector's Institute.

Author: U.S. EPA, Washington, DC, Office

of Solid Waste and Emergency

Response.

1993 Date: Pages: Various

Notes: "The Advaced RCRA Inspector's

Institute"--{sic}, "Swissotel Boston,

December 13-17, 1993".

OCLC No.: 35660290

Guide to the participant's manual --Abstract: 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.

OCLC Source:

Environmental Compliance Branch, Standard Operating Procedures and Quality Assurance Manual, Revision 1.

Author: U.S. EPA, Athens, GA,

Environmental Services Division

Date: 1991 449 Pages:

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

1997 Date: Open Series Pages:

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

This subscription provides the full Abstract: 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. Compliance

Source: **NTIS**



Federal Facilities Hazardous Waste Compliance Manual.

U.S. EPA, Washington, DC, Office Author:

of Solid Waste and Emergency

Response

Date: 1990 Pages: 780

NTIS No.: PB90-188749 OSWER-9992.4 Report No.:

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. **NTIS** Source:

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

RCRAetroleum industry.

Inspection Source: NCEPI

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.

U.S. EPA, Washington, DC, Office Author:

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**



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 EPA/530/R-96/040 Report No.:

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





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



RCRA Permit Policy Compendium.

U.S. EPA, Washington, DC, Office Author:

of Solid Waste and Emergency

Response

1991 Date: Pages: 13 volumes OCLC No.: 24519740

Report No.: EPA/530/SW-91/062

NEIS No.: 1132

User's guide key word index; Abstract: The document is a compendium of Abstract: 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

This compendium provides Abstract: 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

The document provides permit Abstract: 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 **Permitting** regulations promulgated under RCRA. Finally, it is not intended to address facility-specific and process-specific questions as they relate to the new rules.

RCRA

NTIS Source:

Waste Management Area (WMA) and Supplemental Well (SPW) Guidance.

Author: U.S. EPA, Washington, DC, Office

of Solid Waste

1993 Date: Pages: 61

PB94-107695 NTIS No.: EPA/530/R-93/022 Report No.:

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



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

RCR Amodule presents an overview of the RCRA permitting process and the requirements that apply to TSDFs appearating under interim status until a permit is issued. The regulations governing the permit process are found **Permitting** 40 CFR Parts 124 through 270.





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



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)



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 RCRA elps improve understanding of the air rules that

apply to waste management operations, focusing on control technologies and the RCRA and CAA regulations.

Courses NTIC

Source: NTIS

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



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



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

July 1996 Date:

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

Supersedes PB96-780259 Notes:

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).

U.S. EPA, Washington, DC, Office Author:

of Solid Waste and Emergency

Response

Date: July 1996

Pages:

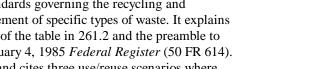
Notes: Supersedes PB96-780168. See also

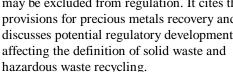
PB96-207089.

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

Source: NTIS







RCRA

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

July 1996 Date:

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:

RCRA



TSD RCRA, Superfund and EPCRA Hotline **Training Module. Introduction to: Groundwater Monitoring (40 CFR Parts** 264/265, Subpart F).

NTIS

Author: U.S. EPA, Washington, DC, Office

of Solid Waste and Emergency

Response

July 1996 Date:

Pages:

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.

NTIS

Source:

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

July 1996 Date:

Pages:

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

July 1996 Date:

Pages:

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)

Page 76 September 1998

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





UNDERGROUND STORAGE TANKS (USTs)



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.





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) http://www.epa.gov/swerust1/

Download: http://www.epa.gov/swerust1/ pubs/INVENTRY.WP1 (448 KB.

WordPerfect V.5.1 format)



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 thirdparty 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.

RCRAate: 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.

Author: U.S. EPA, Office of Underground

Storage Tanks March 1997

Report No.: EPA/510/B-97/001

Date:

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



$m{R}$ esource Conservation and Recovery Act, Superfund, and Underground Storage Tank

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.**

September 1996 Date: 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...')

http://www.epa.gov/swerust1/ Download:

> 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.)

http://www.epa.gov/swerust1/ Download:

> pubs/insitbio.wp5 (154 KB. Word Perfect V.5.1 file. New chapter on

"in situ groundwater

bioremediation'. TEXT ONLY.)

GPO Source:

Introduction to Statistical Inventory Reconciliation: For Underground Storage Tanks.

September 1995 Date: Report No.: EPA/510/B-95/009

Pages:

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)

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/

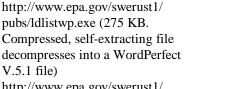
> pubs/ldlistwp.exe (275 KB. Compressed, self-extracting file

V.5.1 file)

http://www.epa.gov/swerust1/ Download:

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

RCRAST requirements for installation, release

USTs detection, spill, overfill, and corrosion protection,

recordkeeping.

Download: http://www.epa.gov/swerust1/

corrective action, closure, reporting and

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 timeand-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-forperformance 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 EPA/510/B-97/002 Report No.:

Pages:

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.

http://www.epa.gov/swerust1/ Download:

pubs/statefnd.exe (compressed, self-

extracting file, 116 KB)



Straight Talk on Tanks: Leak Detection **Methods for Petroleum Underground Storage** Tanks and Piping.

September 1997 Date: Report No.: EPA/510/B-97/007

Pages: 28

Download:

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.

> 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

July 1990 Date: 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.

June 1997 Date:

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 RCRA 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)





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)

DCD Download:

http://www.epa.gov/swerust1/

directive/d9200417.wpd

(WordPerfect 6.1)

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)



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





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/aces/140.html

GENERAL



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.





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.



** **Reminder** ** - For the most up-to-date information, check U.S. EPA's Enviro\$en\$e 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			
Import/Export	90			
Inspection/Compliance	91			
Inventory	92			
Premanufacture Notification	93			
Substantial Risk Notification:				
Section 8(e)	94			

oxic Substances Control Act Sources

TOXNET (National Library of Medicine)

http://hlm.nih.gov URL: toxnet.nlm.nih.gov:23/ Telnet:

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.



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 68-D8-0116 Report No.: Source: **OCLC**

Complete Guide to the Hazardous Waste Regulations: A Comprehensive, Step-By-Step Guide to the Regulation of Hazardous Wastes TSCAunder RCRA, TSCA, HMTA, OSHA, and

General Superfund. Second edition.

Author: Wagner, Travis.

Van Nostrand Reinhold, New York, **P**ublisher:

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

December 1996 Date:

Pages:

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



oxic Substances Control Act Sources

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

Author: U.S. EPA, Washington, DC, Office of Enforcement and Compliance

> Assurance December 1997

400 Pages:

Date:

Report No.: EPA/305/B-97/002

Abstract: This guide is a resource on Federal environmental regulations for small-to-mediumsized 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 selfassessment. 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

1994 Date: Pages: 55

Call No.: KF3958.T675 1994

OCLC No.: 30419879

Originally published January 1991, Notes:

revised February 1994

OCLC Source:

TSCA Confidential Business Information Security Manual.

Author: U.S. EPA, Washington, DC, Office

of Pollution Prevention and Toxics

Date: 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 **TSCA** 40 CFR Part 2.

Source: NTIS, NCEPI





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



TSCAToxic Substances Control Act: A Guide for Chemical Importers/Exporters. An Overview.

General Author: U.S. EPA, Washington, DC, Office of Toxic Substances

Date: 1993

Report No.: EPA/745/K-93/007

Import/Abstract: The publication summarizes the requirements of sections 12(b), Exports, and 13, Imports, of the

Export Toxic Substances Control Act (TSCA), and the rules and policies issued under these sections.

Source: NTIS, NCEPI



INSPECTION/COMPLIANCE



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 April 1990

Pages: 11

Date:

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 Landfill Inspection Guidance Manual.

Author: U.S. EPA, Region V, Pesticides and

Toxic Substances Branch, Chicago,

TSCA

Inspection/

Compliance

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

Sampling for Organic Chemicals in Air.

U.S. EPA, Research Triangle Park, NC, Atmospheric Research and Exposure Assessment Lab Author:

1994 Date: 130 Pages:

PB95-128112 NTIS No.: Report No.: EPA/600/A-94/183

More than 90% of the 75,000 chemicals listed in U.S. EPA's Toxic Substances Control Act Abstract: 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.

NTIS Source:



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

1997

TSCA^{Date:}
NTIS No.: PB97-501423

Inventor€ontrol 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 crossreferencing 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 crossreferencing 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. NTIS Source:

PREMANUFACTURE NOTIFICATION (PMN)



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] www.epa.gov/opptintr/chem-pmn/index.html



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

Author: U.S. E 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





SUBSTANTIAL RISK NOTIFICATION: SECTION 8(E)



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



ENVIRONMENTAL AUDITING SOURCES

GENERAL



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





** Reminder ** - For the most up-to-date information, check U.S. EPA's Enviro\$en\$e 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

Spring 1997 Date:

120 Pages:

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.

For hard copy with appendices, call Source:

> U.S. EPA (202-564-2461) or download without appendices from http://es.epa.gov/oeca/fedfac/compli

an/complian.html

Environmental Management Systems and Environmental Auditing (ISO 14000).

Author: International Organization for

Standardization

ASTM, Philadelphia, PA Publisher:

Date: 1995

Notes: Committee draft standard. ASTM

publication control number 34-114000-65.

Environmental auditing--Standards.

OCLC: 34634911 Source: **OCLC**

AUDIT Protocol for Conducting General 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

1446 Pages:

Report No.: EPA/300/B-96/012A and /012B

NTIS No.: PB97-171193INZ

Source: **NTIS**

Guidance Manual for EPA Chemical Safety Audit Team Members.

Chemical Emergency Preparedness Author:

> Program; U.S. EPA, Office of Solid Waste and Emergency Response

1990 Date: OCLC No.: 26205111 **OCLC** Source:

ISO 14000 EMS Audit Handbook.

Author: Johnson, Gregory P.

Publisher: St. Lucie Press, Boca Raton, FL

1997 (1st ed.) Date:

Pages: 316 OCLC: 37232155 1574440691 ISBN: 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.

National Enforcement Investigations Author:

Center

Date: March 1992 (revised ed.)

Pages: 234

NTIS No.: PB92-161553 Report No.: EPA/300/9-89/003R

The manual provides guidance, not Abstract: 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:

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/pro

based.pdf





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





ENVIRONMENTAL MANAGEMENT SYSTEM SOURCES

GENERAL



European Union Eco Management and Audit Scheme.

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:

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



** **Reminder** ** - For the most up-to-date information, check U.S. EPA's Enviro\$en\$e 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.

207, its administering body.

EMS General

EMS TOC
General99
Implementation104
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ISO 14000 Infocenter

URL: http://www.ISO14000.comAbstract: 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.htmlAbstract: Produced as part of the Enviro\$en\$eprogram, this site offers an insight into the ISOstandards 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



ANSI/ISO 1400 Series: Environmental Management Systems and Environmental Audits.

D 11: 1

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



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

The Center for Environmental Abstract: 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

Rnvironmental Management System Sources

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/12e

lmen.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 1998

 Date:
 199

 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/emspri mer.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



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



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



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:1997Pages:238OCLC:35559158LCCN:96042575ISBN: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







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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



Enviro\$en\$e

URL: http://es.epa.gov

Abstract: Enviro\$en\$e, 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 Enviro\$en\$e is the data base umbrella architecture for "solvent alternatives." Enviro\$en\$e 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. Enviro\$en\$e 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.



** **Reminder** ** - For the most up-to-date information, check U.S. EPA's Enviro\$en\$e 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.

P2 TOC	
General	107
Case Studies	
Implementation Guides Legislative Background	114
Legislative Background	116
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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.



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.

P2
General



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

part of a manufacturing production line or incorporated into a product as part of the

manufacturing process. *Source:* NTIS

P2 General

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





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 Enviro\$en\$e and the National Pollution Prevention Roundtable; see page 105 for contact information.



Abstracts of Pollution Prevention Case Study

Sources.

Publisher: The Associates, Cambridge, MA

Date: 1994 19 Pages: OCLC No.: 30576909

EPA/742/B-94/001 Report No.:

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

Hazardous wastes are generated Abstract: 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 General



Pollution Prevention Assessment for a Manufacturer of Pharmaceuticals.

Publisher: U.S. EPA, National Risk

Management Research Laboratory,

Cincinnati, OH August 1995

Pages: 7

Date:

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 Studies 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 oilbased 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

P2 Case Studies

IMPLEMENTATION GUIDES



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.

Facility Pollution Prevention Guide.

NTIS, OCLC

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

Source:

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

Implementalicies and practices. The Guide describes how to Guides 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, offspecification 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

P2
Implement.
Guides

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.

NTIS, OCLC Source:



LEGISLATIVE BACKGROUND



Federal Chemical Regulation: TSCA, EPCRA and the Pollution Prevention Act.

Author:

Lewis, Cynthia A.

Publisher:

Bureau of National Affairs,

Washington, DC

Date:

1997 551

Pages: 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 36672478 OCLC No.: Source: **OCLC**

Pages:

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

State Legislation Relating to Pollution Prevention: Survey and Summaries.

Waste Reduction Institute for Author:

> Training and Applications Research, Inc. (WRITAR), Minneapolis, MN;

U.S. EPA, Washington, DC

April 1992

Tools of Prevention Opportunities for Promoting Pollution Prevention under Federal Legislation: An Environmental Law Institute Report.

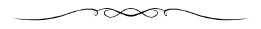
Publisher: Environmental Law Institute,

Washington, DC

Date: 1993 Report No.: 30681387 **OCLC** Source:

Legislative

Background



REFERENCE SOURCES



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)	(513) 569-7707
Library/Cincinnati, OH	
Atmospheric Sciences Modeling Division Library (ASMD)	(919) 541-4536
Library/Research Triangle Park, NC	
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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APP

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

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

contractors, and consultants.

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

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 ClearinghouseTelephone:(800) 624-8301, (304) 293-4191Hours: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.

APP

Oil Spill Program Information Line Provider:

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

12:00 p.m. and 8:00 p.m. (EST), M-F Hours:

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 (404) 562-8700 Region IV 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

Region I Air Quality Information Line Provider:

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 A Proulated 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)

The Customer Service Hotline provides general Abstract: 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

Mambership: Businesses classified as population sources

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

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APF

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 (602) 731-8729 Fax: 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 (909) 396-3335 Fax:

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.ht

Affiliations: Colorado Department of Health, Air Pollution

Control Division

Name: Nick Melliadis Position: Director Telephone: (303) 692-3175

(303) 782-5493 Fax: 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 Toll Free Hotline Name: 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

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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.ht

m

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

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APP

Provider: Georgia Small Business Assistance Program **Membership:** Businesses classified as non-major sources

Businesses with 100 or fewer employees Independently owned businesses

 $\textbf{Internet URL:} \qquad www.DNR.State.Ga.US/dnr/environ$

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

▲ PPephone: (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

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) 292-0351
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

September 1998

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 BishopPosition:State DirectorTelephone:(913) 296-6514Fax:(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/kb

eap

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

Telephone: (800) 259-2890
Name: Vic Tompkins
Position: Director
Telephone: (504) 765-2453
Fax: (504) 765-0921

 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 BakerPosition:State DirectorTelephone:(318) 342-5506Fax:(318) 342-5510

E-mail: brbaker@alpha.nlu.edu

APP

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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

vetwork

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 HallPosition:State DirectorTelephone:(313) 964-1798Fax:(313) 964-3648

E-mail: ron@misbdc.wayne.edu

APP

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/sb

ap_p.html

Affiliations: Minnesota Pollution Control Agency

Name: Barbara Conti Position: **Program Coordinator** Telephone: (612) 297-7709 (612) 297-7709 Fax:

E-mail: barbara.conti@pca.state.mn.us

Name: Phyllis Strong

Position: Compliance Asst. Specialist phyllis.strong@pca.state.mn.us E-mail:

Toll Free Hotline (State) Name:

Telephone: (800) 657-3938

Provider: Minnesota Small Business Development Center Businesses classified as non-major sources Membership:

> 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

Mississippi Small Business Assistance Provider:

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 **SBAP Principal** Position: Telephone: (601) 961-5171 Fax: (601) 961-5742

E-mail: jesse_thompson@deq.state.ms.us Name: Toll Free Hotline (National)

(800) 725-6112 Telephone:

Provider: Mississippi Small Business Development

Center

Membership: Businesses classified as non-major sources

Businesses with 100 or fewer employees Independently owned businesses

www.olemiss.edu/depts/mssbdc Internet URL:

Affiliations: Association of Small Business Development

Centers

U.S. Small Business Administration

Name: Raleigh Byars State Director Position: **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)

(800) 433-8773 Telephone:

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 (406) 444-1872 Fax: E-mail: rclosure@mt.gov

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APP

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

APP

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: kingil@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

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/sbai

ndex.html

Affiliations: Ohio EPA, Division of Air Pollution

Name: Jim Carney

Position: Program Representative

E-mail: jim.carney@central.epa.ohio.us

APP

Name: Rick Carleski Position: **Program Supervisor** (614) 728-1742 Telephone: 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 (614) 466-2711 Telephone: Fax: (961) 466-0829

E-mail: hschick@odod.ohio.gov Toll Free Hotline (National) Name:

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.deg.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

Degreasing, Drycleaning, Title V Position:

Toll Free Hotline (State) Name:

(800) 869-1400 Telephone:

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 (800) 522-6154 Telephone: 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

A Priternet URL: www.deq.state.or.us **Affiliations:** Oregon Department of Environmental Quality,

Air Quality Division

Terry Obteshka Name:

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

Businesses classified as non-major sources Membership:

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) 532-0779 **Fax:** (615) 532-0614

Name: Toll Free Hotline (National)

Telephone: (800) 734-3619

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APP

Provider: Tennessee Small Business Development

Center

Membership: Businesses classified as non-major sources

Businesses with 100 or fewer employees

Independently owned businesses

www.tsbdc.memphis.edu Internet URL:

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

Businesses classified as non-major sources Membership:

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

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

www.dcccd.edu/bjp/sbdc.htm

Internet URL:

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 (214) 860-5813 Fax:

APP

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/k

beap.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

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APP

Provider: Virginia Small Business

Development Center

Businesses classified as non-major sources Membership:

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

rwilburn@dba.state.va.us E-mail:

Provider: Virginia Small Business Policy and Technical

Assistance Program

Businesses classified as non-major sources Membership:

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 (804) 698-4510 Fax:

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 (360) 407-6802 Fax:

Washington Small Business Development Provider:

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 (509) 335-1576 Telephone: 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

West Virginia Office of Air Quality Affiliations:

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

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 (304) 558-2960 Telephone: (304) 558-0127 Fax:

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 (608) 267-0436 Fax:

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

Businesses with 100 or rewer 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

www.cec-dc.org Internet URL: Affiliations: Chlorine Institute Name: Stephen Risotto

Position: **Executive Director**

(202) 785-4374 Telephone: (202) 833-0381 Fax: E-mail: srisotto@cec-dc.org Provider: Research Triangle Institute

Membership: Researchers

www.rti.org/gen_info.html Internet URL:

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 (919) 541-7155 Fax: 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

ppaohio@polysort.com E-mail:

PRIVATE COMPANY - INTERNATIONAL

Provider: Alliance for Responsible Atmospheric Policy CFCs, HCFCs & HFCs prod. manuf. Membership:

Producers of CFCs, HCFCs, and HFCs

David Stirpe Name: Position: Legislative Council (703) 243-0344 Telephone: (703) 243-2874 Fax:

PROFESSIONAL ASSOCIATION - INTERNATIONAL

Provider: American Association of Textile Chemists and

Colorists

Textile chemists Membership:

Textile colorists

Internet URL: www.aatcc.org

Name: Jerry Tew

Position: Technical Director Telephone: (919) 549-8141 (919) 549-8933 Fax:

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

APP

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

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

APP

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 **PCA Coordinator** Position: Telephone: (770) 209-7237 E-mail: jlazarus@tappi.org Matthew Coleman Name: Position: **Executive Director** (770) 446-1290 Telephone: (770) 446-1487 Fax:

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

Diegon bioscience Association

Pennsylvania Biotechnology Association

APP

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 (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

Provider: Chemical Specialties Manufacturers

cpda@ix.netcom.com

Association

Membership: Chemical manufacturers

Internet URL: www.csma.org

Name: Philip Klein

E-mail:

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

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:
 foosery@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

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APP

Provider: National Association of Printing Ink

Manufacturers, Inc.

Membership:Printing ink manufacturersInternet 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

APP

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

Chemical distributors Membership:

Chemical manufacturers

Chemical marketers

Affiliations: Chemical Manufacturers Association

Federation of State Chemical Associations

Name: Mark Fowler Position: **Executive Director** Telephone: (334) 260-7772 (334) 260-7775 Fax: Alachem@aol.com E-mail:

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** (850) 224-8141 Telephone: (850) 224-5283 Fax:

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

Chemical distributors Membership:

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 dan@lca.org E-mail:

Henry T. Graham, Jr. Name:

Director, Environ. & Legal Affairs Position:

 \boldsymbol{A}

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 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

APP

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, Pos Environment, and Resources Center Tele

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/ov

erview.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

APP



UNIVERSITY - STATE

Provider: University of Tennessee Waste Management Research and Education Institute

Membership: Academic researchers

www.ra.utk.edu/eerc/wmrei2.html Internet URL:

Affiliations: University of Tennessee

Name: Dr. Gary Sayler Position: **Acting Director** Telephone: (423) 974-4251 Fax: (423) 974-1838 E-mail: sayler@utk.edu

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A

Air, 12, 13, 14, 17, 18, 19, 20, 21, 25, 26, 27, 28, 29, 36, 57, 67, 68, 71, 74, 91, 92 Audit, 23, 27. See Environmental auditing

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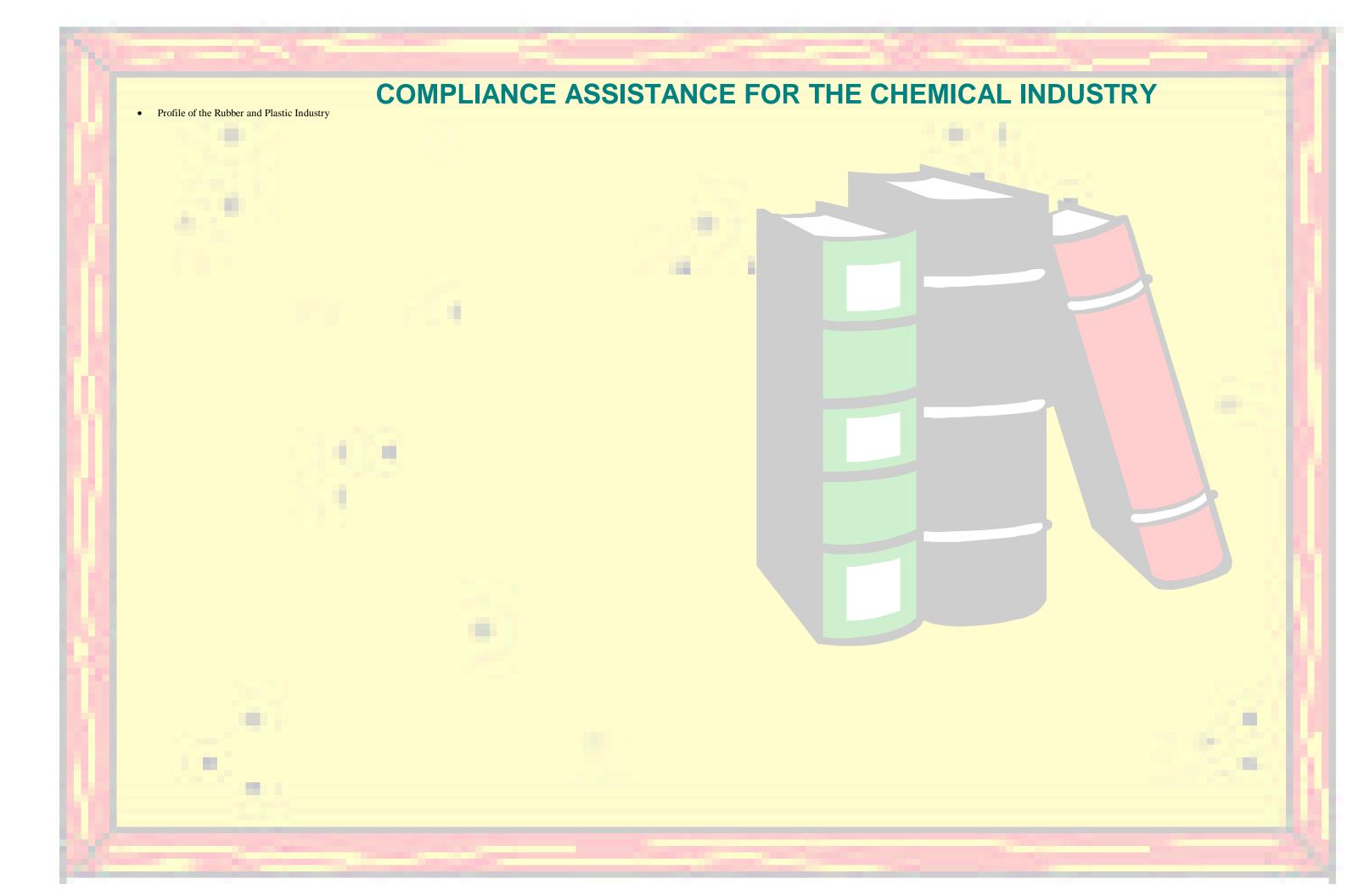
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