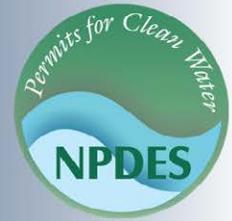




US EPA Pretreatment Webcast Series

The Pretreatment 101 Series:
Industrial User Permitting

September 20, 2012



Acronym List

Acronym	Full Phrase
AA	Approval Authority
AO	Administrative Order
BAT	Best Available Technology Economically Achievable
BCT	Best Conventional Pollutant Control Technology
BMP	Best Management Practices
BMR	Baseline Monitoring Report
BOD5	5-day Biochemical Oxygen Demand
BPJ	Best Professional Judgment
BPT	Best Practicable Control Technology Currently Available
CA	Control Authority
CERCLA	Comprehensive Environmental Remediation, Compensation and Liability Act
CFR	Code of Federal Regulations
CIU	Categorical Industrial User
COD	Chemical Oxygen Demand
CSO	Combined Sewer Overflow
CWA	Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972) Pub. L. 92-500, as amended by Pub. L. 95- 217, Pub. L. 95-576, Pub. L. 96-483, Pub. L. 97-117, and Pub. L. 100-4, 33 U.S.C. 1251 et seq.
CWF	Combined Wastestream Formula
CWT	Centralized Waste Treater
DMR	Discharge Monitoring Report
DSE	Domestic Sewage Exclusion
DSS	Domestic Sewage Study
ELG	Effluent Limitations Guideline
EP	Extraction Procedure
EPA	Environmental Protection Agency
EPCRA	Emergency Preparedness and Community Right to Know Act
ERP	Enforcement Response Plan

FDF	Fundamentally Different Factors
FR	Federal Register
FTE	Full-time equivalent
FWA	Flow Weighted Average
gpd	Gallons per day
ICIS	Integrated Compliance Information System
IPP	Industrial Pretreatment Program
IU	Industrial User
IWS	Industrial Waste Survey
LEL	Lower Explosive Limit
MAHL	Maximum Allowable Headworks Loading
MAIL	Maximum Allowable Industrial Loading
MGD	Million Gallons per day
mg/l	Milligrams per liter
MSDS	Material Safety Data Sheet
MSW	Municipal solid waste
MTCIU	Middle Tier Categorical Industrial User
NAICS	North American Industry Classification System (replaces SIC coding system in 1998)
NOV	Notice of Violation
NPDES	National Pollutant Discharge Elimination System
NRDC	Natural Resources Defense Council
NSCIU	Nonsignificant Categorical Industrial User
NSPS	New Source Performance Standard
O&G	Oil and Grease
O&M	Operations and Maintenance
OCPSF	Organic Chemicals, Plastics, and Synthetic Fibers
P2	Pollution Prevention
PCA	Pretreatment Compliance Audit
PCI	Pretreatment Compliance Inspection
PCS	Permit Compliance System
PIRT	Pretreatment Implementation Review Task Force
POTW	Publicly Owned Treatment Works
PSES	Pretreatment Standards for Existing Sources
PSNS	Pretreatment Standards for New Sources
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
RIDE	Required ICIS Data Element
RNC	Reportable Noncompliance
SDCP	Slug Discharge Control Plan

SIC	Standard Industrial Classification
SIU	Significant Industrial User
SPCC	Spill Prevention Control and Countermeasures
SNC	Significant Noncompliance
SSO	Sanitary Sewer Overflow
SUO	Sewer Use Ordinance
TCLP	Toxicity Characteristic Leachate Procedure
TIE	Toxicity Identification Evaluation
TMDL	Total maximum daily load
TOMP	Toxic Organic Management Program
TRE	Toxicity Reduction Evaluation
TRC	Technical Review Criteria
TRI	Toxic Release Inventory
TRIS	Toxics Release Inventory System
TSDF	Treatment, Storage, and Disposal Facility
TSS	Total Suspended Solids
TTO	Total Toxic Organics
USC	United States Code
UST	Underground Storage Tank
WENDB	Water Enforcement National Data Base
WET	Whole Effluent Toxicity
WWTF	Wastewater Treatment Facility
WWTP	Wastewater Treatment Plant

Resources

Note: While the materials highlighted in this document contain useful information relevant to this broadcast, older materials may contain some outdated information.

Topic: Industrial User Permitting

Industrial User Permitting Guidance Manual (EPA September 1989; updated 2012)

Guidance for POTWs on the development and issuance of effective permits to industrial users of their sewer systems.

<http://www.epa.gov/npdes/pubs/owm0017.pdf>

New Source Dates for Direct and Indirect Dischargers (EPA September 2006)

This memorandum summarizes EPA regulatory requirements for determining what sources are new sources. This document includes Appendix A which provides a summary of relevant regulatory criteria for consideration in this determination as well as Appendix B which provides a listing of applicable new source dates used in making new source determinations.

http://www.epa.gov/npdes/pubs/newsource_dates.pdf

Streamlining Rule Fact Sheet Series

Guidance for implementing the changes made to the general pretreatment regulations in the 2005 Streamlining Rule.

Fact Sheet 1.0: Summary of Changes Made Under the Streamlining Rule

http://www.epa.gov/npdes/pubs/streamline_factsheet_1.0.pdf

Fact Sheet 2.0: Required Changes

http://www.epa.gov/npdes/pubs/pretreatment_streamlining_required_changes.pdf

Fact Sheet 3.0: Equivalent Mass Limits for Concentration Limits

http://www.epa.gov/npdes/pubs/pretreatment_streamlining_3.0.pdf

Fact Sheet 4.0: Equivalent Concentration-Based Limits for Flow-Based Standards

http://www.epa.gov/npdes/pubs/pretreatment_streamlining_fs40.pdf

Fact Sheet 5.0: New Classifications for Categorical Industrial Users

http://www.epa.gov/npdes/pubs/CIU_oversight.pdf

Fact Sheet 6.0: Optional Sampling Waiver for Pollutants Not Present Pretreatment Streamlining Rule

http://www.epa.gov/npdes/pubs/pretreatment_streamlining_6.pdf

Fact Sheet 7.0: Best Management Practices

http://www.epa.gov/npdes/pubs/pretreatment_streamlining_7.0.pdf

Fact Sheet 8.0: Slug Control Plans

http://www.epa.gov/npdes/pubs/pretreatment_streamlining_8.0.pdf

Fact Sheet 10.0: General Control Mechanisms Option

http://www.epa.gov/npdes/pubs/pretreatmentgp_fs_9-17-09.pdf

Oversight of SIUs Discharging to POTWs without Approved Pretreatment Programs Memorandum
(EPA May 2007)

Summary of EPA and States responsibilities and options when acting as Control Authorities over significant industrial users discharging to POTWs without approved pretreatment programs.

<http://www.epa.gov/npdes/pubs/ciumemo05182007signed.pdf>

Pretreatment Implementation Review Task (PIRT) Force: Final Report to the Administrator
(EPA Jan 1985)

Report of the Pretreatment Implementation Review Task Force, including many recommended improvements to the pretreatment program.

<http://www.epa.gov/npdes/pubs/owm0020.pdf>

General Pretreatment Regulations for Existing and New Sources Proposed Rule

(51 FR 21454, June 12, 1986)

Proposed regulatory revisions clarifying existing regulations, responding to the recommendations of the Pretreatment Implementation Review Task force, and conform the pretreatment regulations, where appropriate, to the NPDES permit regulations.

General Pretreatment Regulations for Existing and New Sources Final Rule

(53 FR 40562, October 17, 1988)

Final regulatory revisions clarifying existing regulations, responding to the recommendations of the Pretreatment Implementation Review Task force, and conform the pretreatment regulations, where appropriate, to the NPDES permit regulations.

Baseline Monitoring Reports (EPA July 1983)

Draft guidance to permit authorities on how to review baseline monitoring reports submitted by local pretreatment authorities.

http://www.epa.gov/npdes/pubs/baseline_reports.pdf

Topic: Pretreatment Standards

Guidance Manual for the Use of Production-Based Pretreatment Standards and the Combined Wastestream Formula (EPA 833/B-85-201)

How to implement categorical standards and the combined wastestream formula of the national pretreatment program.

<http://www.epa.gov/npdes/pubs/owm0260.pdf>

Guidance Manual for Implementing Total Toxic Organics (TTO) Pretreatment Standards

(EPA September 1985)

Guidance manual for electroplaters on how to implement the total toxic organics categorical pretreatment standard.

<http://www.epa.gov/npdes/pubs/owm0021.pdf>

Topic: Industry-Specific Guidance

Note: Select industry-specific materials are highlighted in this section; this is not an exhaustive list of effluent guidelines guidance materials.

EPA Office of Science and Technology's Effluent Limitation Guidelines Website

<http://water.epa.gov/scitech/wastetech/guide/index.cfm>

Applicability of Effluent Guidelines and Categorical Pretreatment Standards to Biodiesel

Manufacturing Memorandum (EPA August 2008)

Memorandum summarizing the current CWA regulatory requirements with regard to effluent limitations guidelines, new source performance standards, pretreatment standards, and/or NPDES stormwater permitting, for the manufacturing process wastewater discharge from biodiesel industry.

http://www.epa.gov/npdes/pubs/memo_biodieselpretreatment_aug08.pdf

Centralized Waste Treatment Frequently Asked Questions (EPA 2003 and 2006)

These documents are addenda to Chapter 10, Questions and Answers, of the Small Entity Compliance Guide for the Centralized Waste Treatment Effluent Limitations Guidelines and Pretreatment Standards.

http://water.epa.gov/scitech/wastetech/guide/treatment/upload/2006_12_28_guide_cwt_faqs.pdf

and <http://water.epa.gov/scitech/wastetech/guide/treatment/upload/faqv2.pdf>

Small Entity Compliance Guide – CWT [Centralized Waste Treatment] (EPA 821-B-01-003)

This Guide, designed for small entities, provides easy-to-read descriptions of the final wastewater regulations that EPA issued in December 2000. The Guide focuses on information that small businesses need to comply with the regulations.

<http://www.epa.gov/waterscience/guide/cwt/CWTguidefacts.html>

Guidance Manual: Aluminum, Copper, and Nonferrous Metals Forming and Metal Powders

Pretreatment Standards (EPA 800B89001)

The manual provides guidance to POTWs on the implementation and enforcement of the categorical pretreatment standards for the aluminum forming, copper forming, and nonferrous metals forming and metal powders categories. This guidance is based primarily on two sources: Federal Register notices, which contain the official announcements of the categorical standards, and the final development documents for aluminum forming, copper forming, and nonferrous metals forming and metal powders categories, which provide a summary of the technical support for the regulations.

<http://nepis.epa.gov/Exe/ZyPURL.cgi?Dockey=20001NNP.txt>

Guidance Manual for Battery Manufacturing Pretreatment Standards (EPA August 1987)

Guidance to battery manufacturers on how to comply with national pretreatment requirements.

<http://www.epa.gov/npdes/pubs/owm0193.pdf>

Guidance Manual for Electroplating and Metal Finishing Pretreatment Standard (EPA-440/1-84/091g)

Guidance to electroplating and metal finishing manufacturers on how to comply with national pretreatment requirements.

<http://www.epa.gov/npdes/pubs/owm0022.pdf>

Guidance Manual for Iron and Steel Manufacturing Pretreatment Standards (EPA September 1985)

Guidance to iron and steel manufacturers on how to comply with national pretreatment requirements.

<http://www.epa.gov/npdes/pubs/owm0019.pdf>

Guidance Manual for Leather Tanning and Finishing Pretreatment Standards (EPA 833B86101)

Guidance to leather tanners and finishers on how to comply with pretreatment requirements.

<http://www.epa.gov/npdes/pubs/owm0405.pdf>

Guidance Manual for Pulp, Paper, and Paperboard and Builders' Paper and Board Mills Pretreatment Standards (EPA July 1984)

Guidance to pulp, paper, and paperboard manufacturers on how to comply with national pretreatment requirements.

<http://www.epa.gov/npdes/pubs/owm0023.pdf>

Permitting Guidance for Semiconductor Manufacturing Facilities (EPA April 1998)

Guidance document providing an overview of the semiconductor manufacturing process, a discussion of the overlap between Parts 469 and 433, and examining new and emerging manufacturing technologies and how these processes fit into the regulatory framework of Parts 469 and 433.

<http://www.epa.gov/npdes/pubs/owm0145.pdf>

Permit Guidance Document – Pulp, Paper and Paperboard Manufacturing Point Source Category
(EPA 821-B-00-003)

This document provides further permit technical support and guidance for NPDES permit and pretreatment control authorities to issue facility-specific NPDES permits and pretreatment agreements that implement the requirements of the Pulp and Paper Cluster Rule.

http://water.epa.gov/scitech/wastetech/guide/pulppaper/upload/200_05_15_pulppaper_permitguide_guidance.pdf

Permit Guidance Document – Transportation Equipment Cleaning (EPA 821-R-01-021)

http://water.epa.gov/scitech/wastetech/guide/tec/upload/2009_01_23_guide_tec_tecguid.pdf

Product and Product Group Discharges (OCPSF) (EPA April 2005)

The Part 414 regulations apply to discharges from the manufacture of certain organic chemical products by manufacturers who report data to the U.S. Department of Commerce for their facilities under the specific Federal classification codes that are identified in the Part 414 regulations. This document will aid the reader in determining whether the regulations in Part 414 apply to its discharges. It first explains how a facility determines whether Part 414 or one of the other subchapter N regulations noted above applies to its operation. Next, it provides an extensive list of products that may be subject to the Part 414 requirements.

http://water.epa.gov/scitech/wastetech/guide/ocpsf/upload/2007_10_22_guide_ocpsf_ocpsf-guidance.pdf

Pollution Prevention (P2) Manual for the Pesticide Formulating Packaging and Repackaging Industry
(EPA 821-B-98-017)

This Pollution Prevention (P2) manual discusses the applicability and implementation of effluent limitations guidelines and standards covering the pesticide formulating, packaging, and repackaging (PFPR) industry. The main purpose of the manual is to provide guidance to industry and permittees in the process of complying with this rule, in particular, complying with the P2 Alternative Option.

<http://water.epa.gov/scitech/wastetech/guide/pesticides/p2guide.cfm>

Topic: Overview of the National Pretreatment Program

Control Authority Pretreatment Audit Checklist and Instructions (EPA 833-B-10-001)

This sample Pretreatment Compliance Audit checklist and its accompanying instructions identify information that might be reviewed by Approval Authorities (EPA and States) in order to assess a POTW's implementation of its approved Pretreatment Program (including industrial user permitting) with respect to approved program procedures, as well as state and federal policies and regulations.

http://www.epa.gov/npdes/pubs/final_pca_checklist_and_instructions_%20feb2010.pdf

Guidance for Conducting a Pretreatment Compliance Inspection (EPA 300R92009)

This document provides guidance to an inspector for each step of conducting a pretreatment compliance inspection, including preparation for the inspection, review of industrial user files, visits to the industrial users, interview and closing conference with the control authorities, and follow-up reporting.

<http://nepis.epa.gov/Exe/ZyPURL.cgi?Dockey=50000629.txt>

Guidance for Reporting and Evaluating POTW Noncompliance with Pretreatment Implementation Requirements (EPA September 1987)

This document provides guidance on how to determine reportable noncompliance for POTW pretreatment programs and how to evaluate adequate implementation.

<http://www.epa.gov/npdes/pubs/owm0386.pdf>

Guidance Manual for POTW Pretreatment Program Development (EPA 833/B-83-100)

This manual provides information needed by a local POTW to develop an approvable pretreatment program. It also delineates what data and information the POTWs must include in its submittal package so that the appropriate approval authority can review and approve the program.

<http://www.epa.gov/npdes/pubs/owm0003.pdf>

Introduction to the National Pretreatment Program (EPA-833-B-11-001)

This guidance manual is intended to explain the basic concepts that shape the National Pretreatment Program, discuss the current status of the program and program guidance, and serve as a tool for pretreatment program implementation.

http://www.epa.gov/npdes/pubs/pretreatment_program_intro_2011.pdf