

EFFLUENT LIMITATIONS GUIDELINES AND STANDARDS
INDUSTRIAL SUBCATEGORIES

PHASE I

COMPILED BY
EFFLUENT GUIDELINES DIVISION
OFFICE OF WATER AND HAZARDOUS MATERIALS



APRIL 1975
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C.

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FOREWORD

This compilation of Phase I industries, with a breakdown by subcategory, is intended to serve as a ready-reference for those who find it necessary to familiarize themselves with the entire range of industrial effluent limitations guidelines and standards development.

Similar information for the Phase II and Group II industries will be made available in the coming months.

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PART 405 - DAIRY PRODUCTS PROCESSING

INDUSTRY POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED MAY 28, 1974

Subpart A - Receiving Stations Subcategory

Subpart B - Fluid Products Subcategory

Subpart C - Cultural Products Subcategory

Subpart D - Butter Subcategory

Subpart E - Cottage Cheese and Cultured Cream Cheese Subcategory

Subpart F - Natural and Processed Cheese Subcategory

Subpart G - Fluid Mix for Ice Cream and Other Frozen Desserts
Subcategory

Subpart H - Ice Cream, Frozen Desserts, Novelties and
other Dairy Desserts Subcategory

Subpart I - Condensed Milk Subcategory

Subpart K - Condensed Whey Subcategory

Subpart L - Dry Whey Subcategory

PART 406 - GRAIN MILLS POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED MARCH 20, 1974

Subpart A - Corn Wet Milling Subcategory

Subpart B - Corn Dry Milling Subcategory

Subpart C - Normal Wheat Flour Milling Subcategory

Subpart D - Bulgur Wheat Flour Milling Subcategory

Subpart E - Normal Rice Milling Subcategory

Subpart F - Parboiled Rice Processing Subcategory

PART 407 - CANNED and PRESERVED FRUITS
and VEGETABLES PROCESSING POINT SOURCE CATEGORY
FEDERAL REGISTER NOTICE, DATED MARCH 21, 1974

Subpart A - Apple Juice Subcategory

Subpart B - Apple Products Subcategory

Subpart C - Citrus Products Subcategory

Subpart D - Frozen Potato Products Subcategory

Subpart E - Dehydrated Potato Products Subcategory

PART 408 - CANNED and PRESERVED SEAFOOD

PROCESSING POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED JUNE 26, 1974

- Subpart A - Farm-Raised Catfish Processing Subcategory
- Subpart B - Conventional Blue Crab Processing Subcategory
- Subpart C - Mechanized Blue Crab Processing Subcategory
- Subpart D - Non-Remote Alaskan Crab Meat Processing Subcategory
- Subpart E - Remote Alaskan Crab Meat Processing Subcategory
- Subpart F - Non-Remote Alaskan Whole Crab and Crab Section
Processing Subcategory
- Subpart G - Remote Alaskan Whole Crab and Crab Section
Processing Subcategory
- Subpart H - Dungeness and Tanner Crab Processing in the
Contiguous States Subcategory
- Subpart I - Non-Remote Alaskan Shrimp Processing Subcategory
- Subpart J - Remote Alaskan Shrimp Processing Subcategory
- Subpart K - Northern Shrimp Processing in the Contiguous
States Subcategory
- Subpart L - Southern Non-Breaded Shrimp Processing in the
Contiguous States Subcategory
- Subpart M - Breaded Shrimp Processing in the Contiguous
States Subcategory
- Subpart N - Tuna Processing Subcategory

PART 409 - SUGAR PROCESSING POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED JANUARY 31, 1974

Subpart A - Beet Sugar Processing Subcategory

PART 409 - SUGAR PROCESSING POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED MARCH 20, 1974

Subpart B - Crystalline Cane Sugar Refining Subcategory

Subpart C - Liquid Cane Sugar Refining Subcategory

PART 410 - TEXTILE INDUSTRY POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED JULY 5, 1974

Subpart A - Wool Scouring Subcategory

Subpart B - Wool Finishing Subcategory

Subpart C - Dry Processing Subcategory

Subpart D - Woven Fabric Finishing Subcategory

Subpart E - Knit Fabric Finishing Subcategory

Subpart F - Carpet Mill Subcategory

Subpart G - Stock and Yarn Dyeing and Finishing Subcategory

PART 411 - CEMENT MANUFACTURING POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED FEBRUARY 20, 1974

Subpart A - Nonleaching Subcategory

Subpart B - Leaching Subcategory

Subpart C - Materials Storage Piles Run-off Subcategory

PART 412 - FEEDLOTS POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED FEBRUARY 14, 1974

Subpart A - All Subcategories except Ducks

Subpart B - Ducks Subcategory

PART 413 - ELECTROPLATING POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED MARCH 28, 1974

Subpart A - Copper, Nickel, Chromium and Zinc on Ferrous and
Nonferrous Materials Subcategory

PART 414 - ORGANIC CHEMICALS MANUFACTURING POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED APRIL 25, 1974

Subpart A - Nonaqueous Process Subcategory

Subpart B - Processes with Process Water Contact as Steam
Diluent or Absorbent Subcategory

Subpart C - Aqueous Liquid Phase Reaction Systems Subcategory

PART 415 - INORGANIC CHEMICALS MANUFACTURING POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED MARCH 12, 1974

- Subpart A - Aluminum Chloride Production Subcategory
- Subpart B - Aluminum Sulfate Production Subcategory
- Subpart C - Calcium Carbide Production Subcategory
- Subpart D - Calcium Chloride Production Subcategory
- Subpart E - Calcium Oxide and Calcium Hydroxide Production
Subcategory
- Subpart F - Chlorine and Sodium or Potassium Hydroxide
Production Subcategory
- Subpart G - Hydrochlorine Acid Production Subcategory
- Subpart H - Hydrofluoric Acid Production Subcategory
- Subpart I - Hydrogen Peroxide Production Subcategory
- Subpart J - Nitric Acid Production Subcategory
- Subpart K - Potassium Metal Production Subcategory
- Subpart L - Potassium Dichromate Production Subcategory
- Subpart M - Potassium Sulfate Production Subcategory
- Subpart N - Sodium Bicarbonate Production Subcategory
- Subpart O - Sodium Carbonate Production Subcategory
- Subpart P - Sodium Chloride Production Subcategory
- Subpart Q - Sodium Dichromate and Sodium Sulfate Production
Subcategory

PART 415 - INORGANIC CHEMICALS MANUFACTURING POINT SOURCE CATEGORY

(CONTINUED)

Subpart R - Sodium Metal Production Subcategory

Subpart S - Sodium Silicate Production Subcategory

Subpart T - Sodium Sulfate Production Subcategory

Subpart U - Sulfuric Acid Production Subcategory

Subpart V - Titanium Dioxide Production Subcategory

PART 416 - PLASTICS and SYNTHETICS POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED APRIL 5, 1974

Subpart A - Polyvinyl Chloride Subcategory

Subpart B - Polyvinyl Acetate Subcategory

Subpart C - Polystyrene Subcategory

Subpart D - Polypropylene Subcategory

Subpart E - Polyethylene Subcategory

Subpart F - Cellophane Subcategory

Subpart G - Rayon Subcategory

Subpart H - Acrylonitrile-Butadiene Styrene (ABS)
and Styrene-Acrylonitrile (SAN)
Resin Copolymers Subcategory

Subpart I - Polyester Subcategory

Subpart J - Nylon 66 Subcategory

Subpart K - Nylon 6 Subcategory

Subpart L - Cellulose Acetate Subcategory

Subpart M - Acrylics Subcategory*

* Subcategory to be suspended. Notice to be published
in the Federal Register shortly.

PART 417 - SOAP and DETERGENT MANUFACTURING POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED APRIL 12, 1974

- Subpart A - Soap Manufacturing by Batch Kettle Subcategory
- Subpart B - Fatty Acid Manufacturing by Fat Splitting Subcategory
- Subpart C - Soap Manufacturing by Fatty Acid Neutralization Subcategory
- Subpart D - Glycerine Concentration Subcategory
- Subpart E - Glycerine Distillation Subcategory
- Subpart F - Manufacture of Soap Flakes and Powders Subcategory
- Subpart G - Manufacture of Bar Soaps Subcategory
- Subpart H - Manufacture of Liquid Soaps Subcategory
- Subpart I - Oleum Sulfonation and Sulfation Subcategory
- Subpart J - Air-SO₃ Sulfation and Sulfonation Subcategory
- Subpart K - SO₃ Solvent and Vacuum Sulfonation Subcategory
- Subpart L - Sulfamic Acid Sulfation Subcategory
- Subpart M - Chlorosulfonic Acid Sulfation Subcategory
- Subpart N - Neutralization of Sulfuric Acid Esters and Sulfonic Acids Subcategory
- Subpart O - Manufacture of Spray Dried Detergents Subcategory
- Subpart P - Manufacture of Liquid Detergents Subcategory
- Subpart Q - Manufacturing of Detergents by Dry Blending Subcategory

PART 417 - SOAP and DETERGENT MANUFACTURING POINT SOURCE CATEGORY

(CONTINUED)

Subpart R - Manufacture of Drum Dried Detergents Subcategory

Subpart S - Manufacture of Detergent Bars and Cakes Subcategory

PART 418 - FERTILIZER MANUFACTURING POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED APRIL 8, 1974

Subpart A - Phosphate Subcategory

Subpart B - Ammonia Subcategory

Subpart C - Urea Subcategory

Subpart D - Ammonium Nitrate Subcategory

Subpart E - Nitric Acid Subcategory

PART 419 - PETROLEUM REFINING POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE DATED MAY 9, 1974

Subpart A - Topping Subcategory

Subpart B - Cracking Subcategory

Subpart C - Petrochemical Subcategory

Subpart D - Lube Subcategory

Subpart E - Integrated Subcategory

PART 420 - IRON and STEEL MANUFACTURING POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED JUNE 28, 1974

- Subpart A - By-Product Coke Category
- Subpart B - Beehive Coke Category
- Subpart C - Sintering Subcategory
- Subpart D - Blast Furnace (Iron) Subcategory
- Subpart E - Blast Furnace (Ferromanganese) Subcategory
- Subpart F - Basic Oxygen Furnace (Semi-wet Air Pollution Control Methods) Subcategory
- Subpart G - Basic Oxygen Furnace (Wet Air Pollution Control Methods) Subcategory
- Subpart H - Open Hearth Furnace Subcategory
- Subpart I - Electric Arc Furnace (Semi-wet Air Pollution Control Methods) Subcategory
- Subpart J - Electric Arc Furnace (Wet Air Pollution Control Methods) Subcategory
- Subpart K - Vacuum Degassing Subcategory
- Subpart L - Continuous Casting Subcategory

PART 421 - NONFERROUS METALS MANUFACTURING POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED APRIL 8, 1974

Subpart A - Bauxite Refining Subcategory

Subpart B - Primary Aluminum Smelting Subcategory

Subpart C - Secondary Aluminum Smelting Subcategory

PART 422 - PHOSPHATE MANUFACTURING POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED FEBRUARY 20, 1974

Subpart A - Phosphorus Production Subcategory

Subpart B - Phosphorus Consuming Subcategory

Subpart C - Phosphate Subcategory

PART 423 - STEAM ELECTRIC POWER GENERATING POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED OCTOBER 8, 1974

Subpart A - Generating Unit Subcategory

Subpart B - Small Unit Subcategory

Subpart C - Old Unit Subcategory

Subpart D - Area Runoff Subcategory

PART 424 - FERROALLOY MANUFACTURING POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED FEBRUARY 22, 1974

Subpart A - Open Electric Furnaces With Wet Air Pollution
Control Devices Subcategory

Subpart B - Covered Electric Furnaces and Other Smelting
Operations with Wet Air Pollution Control
Devices Subcategory

Subpart C - Slag Processing Subcategory

PART 425 - LEATHER TANNING and FINISHING POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED APRIL 9, 1974

**Subpart A - Hair Pulp Unhairing with Chrome Tanning and
Finishing Subcategory**

**Subpart B - Hair Save Unhairing with Chrome Tanning and
Finishing Subcategory**

**Subpart C - Unhairing with Vegetable or Alum Tanning and
Finishing Subcategory**

Subpart D - Finishing of Tanned Hides Subcategory

**Subpart E - Vegetable or Chrome Tanning of Unhaired Hides
Subcategory**

**Subpart F - Unhairing with Chrome Tanning and no Finishing
Subcategory**

PART 426 - GLASS MANUFACTURING POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED JANUARY 22, 1974

Subpart A - Insulation Fiberglass Subcategory

PART 426 - GLASS MANUFACTURING POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED FEBRUARY 14, 1974

Subpart B - Sheet Glass Manufacturing Subcategory

Subpart C - Rolled Glass Manufacturing Subcategory

Subpart D - Plate Glass Manufacturing Subcategory

Subpart E - Float Glass Manufacturing Subcategory

Subpart F - Automotive Glass Tempering Subcategory

Subpart G - Automotive Glass Laminating Subcategory

PART 427 - ASBESTOS MANUFACTURING POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED FEBRUARY 26, 1974

Subpart A - Asbestos-Cement Pipe Subcategory

Subpart B - Asbestos-Cement Sheet Subcategory

Subpart C - Asbestos Paper (Starch Binder) Subcategory

Subpart D - Asbestos Paper (Elastomeric Binder) Subcategory

Subpart E - Asbestos Millboard Subcategory

Subpart F - Asbestos Roofing Subcategory

Subpart G - Asbestos Floor Tile Subcategory

PART 428 - RUBBER PROCESSING POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED FEBRUARY 21, 1974

Subpart A - Tire and Inner Tube Plants Subcategory

Subpart B - Emulsion Crumb Rubber Subcategory

Subpart C - Solution Crumb Rubber Subcategory

Subpart D - Latex Rubber Subcategory

PART 429 - TIMBER PRODUCTS PROCESSING POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE DATED APRIL 18, 1974

Subpart A - Barking Subcategory

Subpart B - Veneer Subcategory

Subpart C - Plywood Subcategory

Subpart D - Hardboard-Dry Process Subcategory

Subpart E - Hardboard-Wet Process Subcategory

Subpart F - Wood Preserving Subcategory

Subpart G - Wood Preserving-Steam Subcategory

Subpart H - Wood Preserving-Boultonizing Subcategory

PART 430 - PULP, PAPER and PAPER BOARD POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED MAY 29, 1974

Subpart A - Unbleached Kraft Subcategory .

Subpart B - Sodium Based Neutral Sulfite Semi-Chemical Subcategory

Subpart C - Ammonia Base Neutral Sulfite Semi-Chemical Subcategory

Subpart D - Unbleached Kraft-Neutral Sulfite Semi-Chemical
(Cross Recovery) Subcategory

Subpart E - Paperboard From Waste Paper Subcategory

PART 431 - BUILDERS PAPER and ROOFING FELT SEGMENT of the
BUILDERS PAPER and BOARD MILLS POINT SOURCE CATEGORY
FEDERAL REGISTER NOTICE, DATED MAY 9, 1974

Subpart A - Builders Paper and Roofing Felt Subcategory

PART 432 - MEAT PRODUCTS POINT SOURCE CATEGORY

FEDERAL REGISTER NOTICE, DATED FEBRUARY 28, 1974

Subpart A - Simple Slaughterhouse Subcategory

Subpart B - Complex Slaughterhouse Subcategory

Subpart C - Low Processing Packinghouse Subcategory

Subpart D - High Processing Packinghouse Subcategory