

The background of the slide is a close-up, high-resolution image of blue water with numerous small, concentric ripples. The lighting creates a shimmering effect, with lighter blue highlights and darker blue shadows across the surface of the water.

# Making Permitting Easier

# Information Needed for Permitting

Base Material

Process

Use of Water

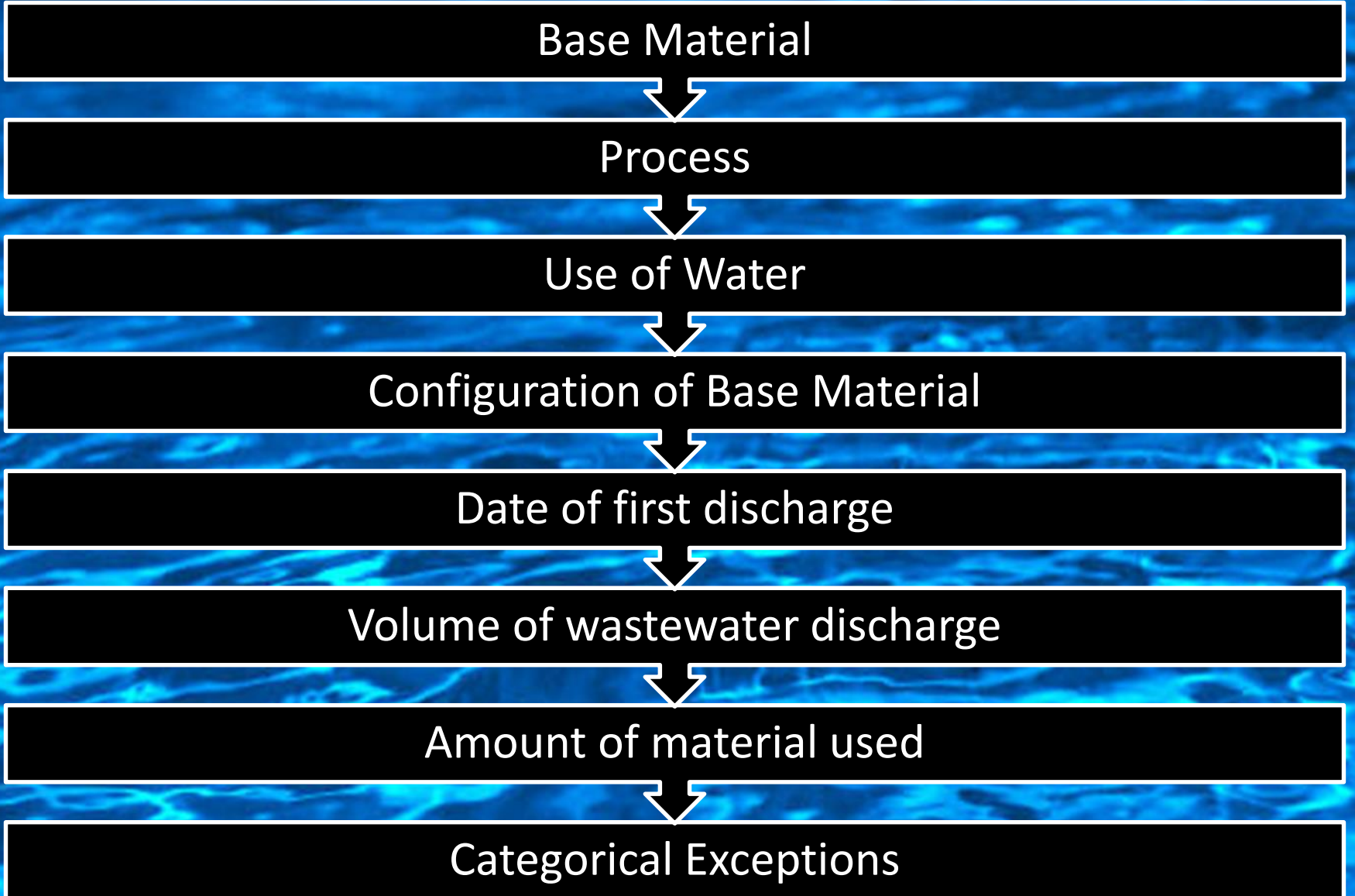
Configuration of Base Material

Date of first discharge

Volume of wastewater discharge

Amount of material used

Categorical Exceptions



## Base Material

- Metal (Aluminum, Copper, Steel)
- Pharmaceutical Active Ingredients
- Silicon

## Process

- Acid Etching
- Cleaning
- Mixing/Compounding
- Chemical Synthesis

## Use of Water

- Air Scrubber
- Cleaning
- Rinsing
- Contact Cooling Water

## Configuration of Base Material

- Rod, wire, and coil
- Bar, billet, and bloom
- Strip, Sheet, and plate
- Pipe, tube, and other products

## Date of first discharge

- Existing Source
- New Source

## Amount of material

- Production Based Limits

## Volume of discharge

- Electroplating limits
- Production Based Limits

## Exceptions

- Pharmaceutical Research vs Production
- Aluminum forming draw less than 1 million pounds per year

# Aluminum Base Material



<b>40 CFR Part</b>	<b>Category</b>	<b>New Source Date for Indirect Dischargers</b>	<b>First step is identifying all the categories for the base material</b>
467	Aluminum Forming	Subpart A-F	Subpart A-B: Rolling Subpart C: Extrusion Subpart D: Forging Subpart E-F: Drawing
421	Nonferrous Metals Manufacturing	Subparts B-C	Subpart B: Producing aluminum from alumina Subpart C: Remelting of aluminum scrap
464	Metal Molding and Casting	Subparts A	Subpart A: Aluminum Casting

# 467 Aluminum Forming

<b>Sub part</b>	<b>Applicability</b>	<b>The next step is what the process is and what changes take place to the base material and followed by the next step what is water being used for.</b>
A	Rolling with Neat Oils	<ul style="list-style-type: none"><li>• Core with an annealing furnace scrubber</li><li>• Core without an annealing furnace scrubber</li><li>• Continuous sheet casting lubricant</li><li>• Solution heat treatment contact cooling water</li><li>• Cleaning or etching bath</li></ul>
B	Rolling with emulsions	<ul style="list-style-type: none"><li>• Core</li><li>• Direct chill casting contact cooling water</li><li>• Solution heat treatment contact cooling water</li><li>• Cleaning or etching bath</li><li>• Cleaning or etching rinse</li><li>• Cleaning or etching scrubber liquor</li></ul>
C	Extrusion	<ul style="list-style-type: none"><li>• Core</li><li>• Extrusion press leakage</li><li>• Direct chill casting contact cooling water</li><li>• Press heat treatment contact cooling water</li><li>• Solution heat treatment contact cooling water</li><li>• Cleaning or etching bath</li><li>• Cleaning or etching rinse</li><li>• Cleaning or etching scrubber liquor</li></ul>

# Contact Cooling Water



# Quench Tank



# 420 Iron and Steel Manufacturing



Sub part	Applicability	The configuration of the base material
H	Salt Bath Descaling	(a) Oxidizing
		(1) Batch, sheet and plate (2) Batch, rod and wire (3) Batch, pipe and tube (4) Continuous
		(b) Reducing
		(1) Batch (2) Continuous
I	Acid Pickling	(a) Sulfuric acid pickling
		(1) Rod, wire, coil (2) Bar, billet, and bloom (3) Strip, sheet, and plate (4) Pipe, tube, other products (5) Fume scrubber
		(b) Hydrochloric acid pickling
		(c) Combination acid pickling



# 420 Iron and Steel Manufacturing



Sub part	Applicability	The process being done and also the shape being used		
I	Sulfuric Acid Pickling (1) Rod, wire, and coil		Maximum for any 1 day	Average monthly
			Kg/kkg (pounds per 1,000 lb) of product	
		Lead	0.0000939	0.0000313
		Zinc	0.000125	0.0000417
I	Sulfuric Acid Pickling (4) Pipe, tube, other products		Maximum for any 1 day	Average monthly
			Kg/kkg (pounds per 1,000 lb) of product	
		Lead	0.000131	0.0000438
		Zinc	0.000175	0.0000584

# New Source Dates

<b>40 CFR Part</b>	<b>Category</b>	<b>New Source Date for Indirect Dischargers</b>
467	Aluminum Forming	Subpart A-F: 11/22/82
461	Battery Manufacturing	Subparts A-G: 11/10/82
458	Carbon Black Manufacturing	Subparts A-D: 5/18/76
437	Centralized Waste Treatment	Subparts A-D: 1/13/99
465	Coil Coating	Subparts A-C: 1/12/81 Subpart D: 2/10/83
412	Concentrated Animal Feeding Operations (CAFO)	Subpart B: 9/7/73
468	Copper Forming	Subpart A: 11/12/82
469	Electrical and Electronic Components	Subparts A-B: 8/24/82 Subparts C-D: 3/9/83
418	Fertilizer Manufacturing	Subparts A-D: 12/7/73 Subpart E: 1/16/76 Subparts F-G: 10/7/74

# 413 Electroplating

Subpart	Applicability	Quantity of Wastewater Discharge		
A	Common Metals facilities discharging less than 38,000 liters per day	Pollutant	Maximum for any 1 day	Average 4 consecutive days
		CN, A	5.0	2.7
		Lead	0.6	0.4
		Cadmium	1.2	0.7
		TTO	4.57	N/A
A	Common Metals facilities discharging more than 38,000 liters per day	Pollutant	Maximum for any 1 day	Average 4 consecutive days
		CN, T	1.9	1.0
		Copper	4.5	2.7
		Nickel	4.1	2.6
		Chromium	7.0	4.0
		Zinc	4.2	2.6
		Lead	0.6	0.4
		Cadmium	1.2	0.7
		Total Metals	10.5	6.8
		TTO	2.13	N/A

# 465 Coil Coating

Sub part	Applicability	Volume of material				
A	Steel Basis Material		Maximum for any 1 day		Average monthly	
			Mg/m2 (pounds per 1 million ft2) of area processed			
		Chromium	0.12	0.024	0.047	0.01
		Cyanide	0.063	0.013	0.025	0.005
		Zinc	0.33	0.066	0.14	0.027
B	Galvanized Basis Material		Maximum for any 1 day		Average monthly	
			Mg/m2 (pounds per 1 million ft2) of area processed			
		Chromium	0.13	0.027	0.052	0.011
		Copper	0.44	0.090	0.21	0.043
		Cyanide	0.07	0.015	0.028	0.006
	Zinc	0.35	0.072	0.15	0.030	

# Exceptions

- 40 CFR 467.01

(b) This part applies to any aluminum forming facility, except for plants identified under paragraph (c) of this section, which discharges or may discharge pollutants to waters of the United States or which introduces or may introduce pollutants into a publicly owned treatment works.

(c) This part is applicable to indirect discharging aluminum forming plants that extrude less than 3 million pounds of product per year and draw, with emulsions or soaps, less than 1 million pounds per year.

