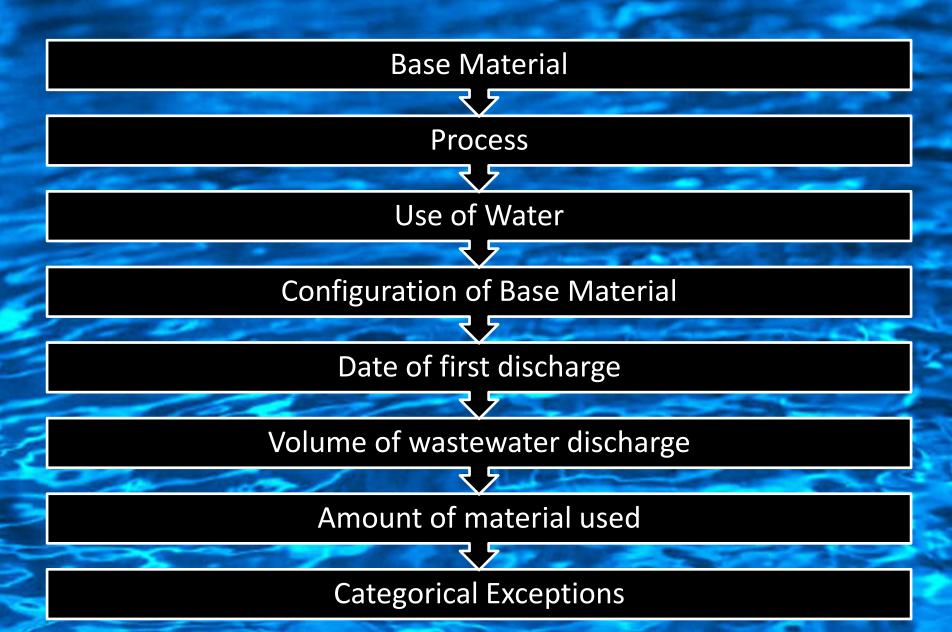
Making Permitting Easier

Information Needed for Permitting



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 SourceNew 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

40 CFR Part	Category	New Source Date for Indirect Dischargers	First step is identifying all the categories for the base material
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

Sub part	Applicability	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.
A	Rolling with Neat Oils	 Core with an annealing furnace scrubber Core without an annealing furnace scrubber Continuous sheet casting lubricant Solution heat treatment contact cooling water Cleaning or etching bath
В	Rolling with emulsions	 Core Direct chill casting contact cooling water Solution heat treatment contact cooling water Cleaning or etching bath Cleaning or etching rinse Cleaning or etching scrubber liquor
С	Extrusion	 Core Extrusion press leakage Direct chill casting contact cooling water Press heat treatment contact cooling water Solution heat treatment contact cooling water Cleaning or etching bath Cleaning or etching scrubber liquor

Contact Cooling Water



Quench Tank



420 Iron and Steel Manufacturing

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

40 CFR Part	Category	New Source Date for Indirect Dischargers
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		Pollutant	Maximum for any 1 day	Average 4 consecutive days	
		CN, A	5.0	2.7	
	Lead	0.6	0.4		
	liters per day	Cadmium	1.2	0.7	
		ТТО	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	
		тто	2.13	N/A	

465 Coil Coating

Sub part	Applicability	Volume of material				
	Steel Basis		Maximum for any 1 day Average monthly			U
	Material		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			0	
		Mg/m2 (pounds per 1 million ft2) of area processed			of area	
	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.