Supplemental Questions for Industries that Perform Metal Finishing

- 1. Was the facility constructed after August 31, 1982? (circle yes or no below)
 - No construction <u>started before August 31, 1982.</u> The company is an Electroplater unless they own more than 50 % of the metal they perform metal finishing on.
 - Yes construction **began after August 31, 1982.** The company is a Metal Finisher regardless what percent of the metal they own.
- 3. Does your company own more than 50% of the metal that undergoes a metal finishing process in a calendar year? Yes ~ No (If yes the company is regulated under 40 CFR 433)
- 4. Which of the following metal finishing process operations does your company perform?
 - _____ Electroplating
 - _____ Electroless Plating
 - _____ Anodizing
 - _____ Chemical Etching and Milling
 - Printed Circuit Board Manufacturing (PCBM)
 - _____ Coatings such as:
 - phosphating
 - alodine (chromating)
 - passivating (example: nitric acid applied to stainless steel)
 - metal coloring

5. Does your company discharge more than 10,000 gallons per day of waste water to the sanitary sewer <u>from any of the metal finishing operations listed above</u>?

Yes ~ No

If the company is regulated under 40 CFR 413 as a job shop electroplater there are 2 sets of discharge limits that will be used based on the number of gallons of wastewater discharged each day from the regulated processes listed in number 4 (above). If a job shop electroplater performs precious metals electroplating then the industry will have to comply with a discharge limit for silver as well if they discharge greater than 10,000 gallons per day.

[Industrial waste from metal finishing operations is wastewater or a chemical solution that was used in any one of the 6 core operations listed above. Typically it is wastewater from cleaning and / or rinsing metal that will or has undergone a metal finishing process.]

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Indicate which of the following metal finishing processes are performed at the facility:

1. Electroplating of any of the following metals:

Cadmium	
Chromium	
Copper	
Gold (precious metal)	
Nickel	
Platinum (precious metal)	
Silver (precious metal)	
Tin	
Zinc	
Other metal electroplating or combination of	of metals – list below
List any electroplating process that has cyanide	
List any other process that uses cyanide:	
2. Electroless plating? Yes ~ No If yes indicat	te the type of electroless plating:
3. Anodizing? Yes ~ No If yes indicate whichSulfuric AcidChromic Acid	of the following acids are used to anodize:
4. Coating? Yes ~ No If yes indicate which c	of the following process is performed:
Phosphating	Chromating (Alodine)
Passivating (acid on stainless steel)	Metal Coloring

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5.	Ch	emical Etching Yes ~ No	
	Che	emical Milling? Yes ~ No	
6.	Pri	nted Circuit Board Manufacturing? Yes ~ No	
7.	7. Does the facility perform metal cleaning? Yes ~ No		
	lf y	es which of the following metal cleaning is performed?	
		Alkaline CleaningCaustic CleaningAcid CleaningStripping	
8.	. Does the facility have a pretreatment system? Yes ~ No		
	If yes, answer the following questions:		
	a.	Does the firm treat for hexavalent chromium? Yes ~ No What reducing agent used to treat for hexavalent chrome?	
	b.	Does the firm treat for cyanide? Yes ~ No What is the name of the oxidizing agent?	
	C.	Does the treatment system have a flocculation step? Yes ~ No	
	d.	Does the treatment system have a precipitation step? Yes ~ No	
	e.	Does the treatment system have a pH adjustment step? Yes \sim No	
	f.	Is a sludge generated? Yes ~ No Name the type of drying method used for sludge	

9. Check if the firm discharges wastewater to the sewer from any of the following operations:

- Cleaning
- □ Machining
- Grinding
- Polishing
- Tumbling
- Burnishing
- Impact Deformation
- Pressure Deformation
- Shearing
- □ Heat Treating
- □ Thermal Cutting
- Welding
- Brazing
- Soldering
- □ Flame Spraying
- □ Sand Blasting
- Other Abrasive Jet Machining
- □ Electric Discharge Machining
- Electrochemical Machining
- Electron Beam Machining
- Laser Beam Machining
- Plasma Arc Machining
- □ Ultrasonic Machining
- □ Sintering
- Laminating
- □ Hot Dip Coating
- □ Sputtering
- □ Vapor Plating
- Thermal Infusion
- Salt Bath Descaling
- □ Solvent Degreasing,
- Paint Stripping
- Painting
- Electrostatic Painting
- Electropainting
- □ Vacuum Metalizing
- □ Assembly
- Calibration
- □ Testing
- Mechanical Plating