

ENVIRONMENTAL PROTECTION AGENCY

[40 CFR Part 413]

[FRL 361-4]

ELECTROPLATING MANUFACTURING POINT SOURCE CATEGORY

Standards of Performance for New Sources and Pretreatment Standards for Existing and New Sources

Notice is hereby given that effluent limitations and guidelines for existing sources, standards of performance and pretreatment standards for new sources and pretreatment standards for existing sources set forth in tentative form below are proposed by the Environmental Protection Agency (EPA). On March 28, 1974, EPA promulgated a regulation adding Part 413 to Chapter 40 of the Code of Federal Regulations (39 FR 11510). That regulation with subsequent amendments established effluent limitations and guidelines for existing sources and standards of performance and pretreatment standards for new sources for the electroplating manufacturing point source category. The regulation proposed below will amend 40 CFR Part 413—electroplating manufacturing point source category by deleting § 413.13(b) and revising §§ 413.14, 413.15, and 413.16 of electroplating of common metals subcategory (Subpart A) and adding §§ 413.23, 413.24, 413.25, and 413.26 to the electroplating of precious metals subcategory (Subpart B), §§ 413.43, 413.44, 413.45, and 413.46 to the anodizing subcategory (Subpart D), §§ 413.53, 413.54, 413.55, and 413.56 to the coating subcategory (Subpart E) and §§ 413.63, 413.64, 413.65, and 413.66 to the chemical etching and milling subcategory (Subpart F), pursuant to sections 301, 304 (b) and (c), 306(b) and 307 (b) and (c) of the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251, 1311, 1314 (b) and (c), 1316(b) and 1317 (b) and (c), 86 Stat. 816 et seq.; Pub. L. 92-500) (the Act). Simultaneously with this proposed rule making EPA is promulgating interim final regulations which establish effluent limitations for point sources, other than publicly owned treatment works, which require the application of the best practicable control technology currently available for the above listed subparts.

(a) Legal Authority. Section 301(b) of the Act requires the achievement by not later than July 1, 1977, of effluent limitations for point sources, other than publicly owned treatment works, which require the application of the best practicable control technology currently available as defined by the Administrator pursuant to section 304(b) of the Act. Section 301(b) also requires the achievement by not later than July 1, 1983, of effluent limitations for point sources, other than publicly owned treatment works, which require the application of best available technology economically achievable which will result in reasonable further progress toward the national goal of eliminating the discharge of all pollutants, as determined in accordance

with regulations issued by the Administrator pursuant to section 304(b) of the Act.

Section 304(b) of the Act requires the Administrator to publish regulations providing guidelines for effluent limitations setting forth the degree of effluent reduction attainable through the application of the best practicable control technology currently available and the degree of effluent reduction attainable through the application of the best control measures and practices achievable including treatment techniques, process and procedural innovations, operating methods and other alternatives. The regulation herein sets forth effluent limitations and guidelines, pursuant to sections 301 and 304(b) of the Act, for the electroplating of common metals (Subpart A), electroplating of precious metals subcategory (Subpart B), electroplating of specialty metals subcategory (Subpart C), anodizing subcategory (Subpart D), coatings subcategory (Subpart E), and chemical etching and milling subcategory (Subpart F) of the electroplating manufacturing point source category.

Section 304(c) of the Act requires the Administrator to issue to the States and appropriate water pollution control agencies information on the processes, procedures or operating methods which result in the elimination or reduction of the discharge of pollutants to implement standards of performance under section 306 of the Act. The reports or "Development Documents" referred to below provide, pursuant to section 304(c) of the Act, information on such processes, procedures or operating methods.

Section 306 of the Act requires the achievement by new sources of a Federal standard of performance providing for the control of the discharge of pollutants which reflects the greatest degree of effluent reduction which the Administrator determines to be achievable through application of the best available demonstrated control technology, processes, operating methods, or other alternatives, including, where practicable, a standard permitting no discharge of pollutants.

Section 306(b) (1) (B) of the Act requires the Administrator to propose regulations establishing Federal standards of performance for categories of new sources included in a list published pursuant to section 306(b) (1) (A) of the Act. The Administrator published in the Federal Register of January 16, 1973 (38 FR 1624) a list of 27 source categories, including the electroplating manufacturing category. The regulation proposed herein amends the standards of performance applicable to new sources for the electroplating of common metals subcategory (Subpart A), and sets forth the standards of performance applicable to new sources for the electroplating of precious metals subcategory (Subpart B), the anodizing subcategory (Subpart D), the coatings subcategory (Subpart E) and the chemical etching and milling subcategory (Subpart F) of the electroplating manufacturing point source category.

Section 307(c) of the Act requires the Administrator to promulgate pretreatment standards for new sources at the same time that standards of performance for new sources are promulgated pursuant to section 306. Section 413.16 proposed below amends the pretreatment standard for new sources within the electroplating of common metals subcategory (Subpart A) and §§ 413.26, 413.46, 413.56, and 413.66, proposed below, provide pretreatment standards for new sources within the precious metals plating subcategory (Subpart B), the anodizing subcategory (Subpart D), the coatings subcategory (Subpart E) and the chemical etching and milling subcategory (Subpart F) of the electroplating manufacturing point source category. Section 307(b) of the Act requires the establishment of pretreatment standards for pollutants introduced into publicly owned treatment works and 40 CFR Part 128 establishes that the Agency will propose specific pretreatment standards at the time effluent limitations are established for point source discharges. Section 413.14 proposed below amends the proposed pretreatment standards for the electroplating of common metals subcategory (Subpart A) and §§ 413.24, 413.44, 413.54, and 413.64 proposed below provide pretreatment standards for existing sources within the electroplating of precious metals subcategory (Subpart B), the anodizing subcategory (Subpart D), and the coatings subcategory (Subpart E) and the chemical etching and milling subcategory (Subpart F) of the electroplating manufacturing point source category.

(b) Summary and Basis of Proposed Effluent Limitations for Existing Sources and Standards of Performance and Pretreatment Standards for New Sources and Pretreatment Standards for Existing Sources.

The general methodology and summary of conclusions are discussed in considerable detail in the preamble of the interim final regulations for the electroplating of common metals subcategory (Subpart A), the electroplating of precious metals subcategory (Subpart B), the anodizing subcategory (Subpart D), the coatings subcategory (Subpart E) and the chemical etching and milling subcategory (Subpart F), which are being promulgated by EPA simultaneously with publication of this proposed regulation. The information contained in the preamble to the interim final regulation is incorporated herein by reference. The proposed regulation set forth below proposes pretreatment standards for pollutants introduced into publicly owned treatment works. The proposal will establish for each subpart the extent of application of effluent limitations to existing sources and to new sources which discharge to publicly owned treatment works. The regulation is intended to be complementary to the general regulation for pretreatment standards for existing sources set forth at 40 CFR Part 128. The general regulation was proposed July 19, 1973 (38 FR 19236), and published in final form on November 8, 1973 (38 FR

30982). The regulation proposed below applies to users of publicly owned treatment works which fall within the description of the point source category to which the limitations and standards apply. However, the proposed pretreatment regulation applies to the introduction of pollutants which are directed into a publicly owned treatment works, rather than to discharges of pollutants to navigable waters.

The general pretreatment standard divides pollutants discharged by users of publicly owned treatment works into two broad categories; "compatible" and "incompatible." Compatible pollutants are generally not subject to pretreatment standards. However, 40 CFR 128.131 (prohibited wastes) may be applicable to compatible pollutants. Additionally, local pretreatment requirements may apply (See 40 CFR 128.110). Incompatible pollutants are subject generally to pretreatment standards as provided in 40 CFR 128.133.

Sections 413.14, 413.24, 413.44, 413.54, and 413.64 of the regulation proposed below are intended to implement that portion of § 128.133, above, requiring that a separate provision be made stating the application to pretreatment standards of effluent limitations based upon best practicable control technology currently available.

Questions were raised during the public comment period on the proposed general pretreatment standard (40 CFR Part 128) about the propriety of applying a standard based upon best practicable control technology currently available to all plants subject to pretreatment standards. In general, EPA believes the analysis supporting the effluent limitations and guidelines is adequate to make a determination regarding the application of those standards to users of publicly owned treatment works. However, to ensure that those standards are appropriate in all cases, EPA now seeks additional comments focusing upon the application of effluent limitations guidelines to users of publicly owned treatment works.

The reports entitled "Development Document for Interim Final Effluent Limitations and Guidelines and Proposed New Source Performance Standards for the Metal Finishing Segment of the Electroplating Manufacturing Point Source Category" and the "Development Document for Interim Final Effluent Limitations and Guidelines and Proposed New Source Performance Standards for the Precious and Other Metals Segment of the Electroplating Manufacturing Point Source Category" detail the analysis undertaken in support of the regulation being proposed herein and is available for inspection in the EPA Freedom of Information Center, Room 204, West Tower, Waterside Mall, Washington, D.C., at all EPA regional offices, and at State water pollution control offices. A supplementary analysis prepared for EPA of the possible economic effects of the proposed regulation is also available for inspection at these locations. Copies of both

of these documents are being sent to persons or institutions affected by the proposed regulation or who have placed themselves on a mailing list for this purpose (see EPA's Advance Notice of Public Review Procedures, 38 FR 21202, August 6, 1973). An additional limited number of copies of both reports are available. Persons wishing to obtain a copy may write the EPA Office of Public Affairs, Environmental Protection Agency, Washington, D.C. 20460, Attention: Ms. Ruth Brown, A-107.

When this regulation is promulgated, revised copies of the Development Document will be available from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402. Copies of the Economic Analysis will be available through the National Technical Information Service, Springfield, Virginia 22151.

(c) Summary of public participation. A full listing of participants and discussion of comments and responses is included in the preamble of the interim final regulation for the electroplating of common metals, electroplating of precious metals, anodizing, coatings and chemical etching and milling subcategories being simultaneously promulgated by EPA and are incorporated herein by reference.

Interested persons may participate in this rulemaking by submitting written comments in triplicate to the EPA Office of Public Affairs, Environmental Protection Agency, Washington, D.C. 20460, Attention: Ms. Ruth Brown, A-107. Comments on all aspects of the proposed regulation are solicited. In the event comments are in the nature of criticisms as to the adequacy of data which are available, or which may be relied upon by the Agency, comments should identify and, if possible, provide any additional data which may be available and should indicate why such data are essential to the development of the regulations. In the event comments address the approach taken by the Agency in establishing a standard of performance or pretreatment standard, EPA solicits suggestions as to what alternative approach should be taken and why and how this alternative better satisfies the detailed requirements of sections 306 and 307 (b) and (c) of the Act.

A copy of all public comments will be available for inspection and copying at the EPA Freedom of Information Center, Room 204, West Tower, Waterside Mall, 401 M Street SW., Washington, D.C. A copy of preliminary draft contractor reports, the Development Documents and economic study referred to above, and certain supplementary materials supporting the study of the industry concerned will also be maintained at this location for public review and copying. The EPA information regulation, 40 CFR Part 2, provides that a reasonable fee may be charged for copying.

All comments received on or before May 27, 1975 will be considered. Steps previously taken by the Environmental Protection Agency to facilitate public response within this time period are out-

lined in the advance notice concerning public review procedures published on August 6, 1973 (38 FR 21202).

Dated: April 9, 1975.

JOHN QUARLES,
Acting Administrator.

**PART 413—ELECTROPLATING
POINT SOURCE CATEGORY**

**Subpart A—Electroplating of Common Metals
Subcategory**

- Sec.
413.13 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
413.14 Pretreatment standards for existing sources.
413.15 Standards of performance for new sources.
413.16 Pretreatment standards for new sources.

**Subpart B—Electroplating of Precious Metals
Subcategory**

- 413.23 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
413.24 Pretreatment standards for existing sources.
413.25 Standards of performance for new sources.
413.26 Pretreatment standards for new sources.

**Subpart C—Electroplating of Specialty Metals
Subcategory [Reserved]**

Subpart D—Anodizing Subcategory

- 413.43 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
413.44 Pretreatment standards for existing sources.
413.45 Standards of performance for new sources.
413.46 Pretreatment standards for new sources.

Subpart E—Coatings Subcategory

- 413.53 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
413.54 Pretreatment standards for existing sources.
413.55 Standards of performance for new sources.
413.56 Pretreatment standards for new sources.

**Subpart F—Chemical Etching and Milling
Subcategory**

- 413.63 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
413.64 Pretreatment standards for existing sources.
413.65 Standards of performance for new sources.
413.66 Pretreatment standards for new sources.

AUTHORITY: Secs. 301, 304 (b) and (c), 306 (b) and (c) and 307 (c), Federal Water Pollution Control Act, as amended (33 U.S.C. 1251, 1311, 1314 (b) and (c), 1316 (b) and (c) and 1317 (c)), 86 Stat. 816 et seq.; Pub. L. 92-500.

PROPOSED RULES

Subpart A—Electroplating of Common Metals Subcategory

Part 413 is proposed to be amended as follows:

Subpart A is amended by revising §§ 413.13, 413.14, 413.15, and 413.16 as follows:

§ 413.13 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

(a) The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable: There shall be no discharge of process waste water pollutants to navigable waters.

§ 413.14 Pretreatment standards for existing sources.

The pretreatment standard under section 307(b) of the Act for a source within the common metals plating subcategory which is a user of a publicly owned treatment works and a major contributing industry as defined in 40 CFR Part 128 (and which would be an existing point source subject to section 301 of the Act, if it were to discharge pollutants to the navigable waters), shall be the standard set forth in 40 CFR Part 128, except that, for the purpose of this section, 40 CFR 128.121, 128.122, 128.132, and 128.133 shall not apply.

(a) The following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties controlled by this section which may be discharged to a publicly owned treatment works by a point source subject to the provisions of this subpart.

Effluent characteristic	Effluent limitations	
	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
	(Metric units) milligrams per square meters per operation	
Copper.....	160.....	80
Nickel.....	160.....	80
Cr, Total.....	160.....	80
CrVI.....	16.....	8
Zinc.....	160.....	80
CN, Total.....	160.....	80
CN, A.....	16.....	8
Fluoride.....	6400.....	3200
Cadmium.....	93.....	48
Lead.....	160.....	80
Iron.....	320.....	160
Tin.....	320.....	160
Phosphorus.....	320.....	160
TSS.....	6400.....	3200
pH.....	Within the range 6.0 to 9.5.	

Effluent characteristic	Effluent limitations	
	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
	(English units) pounds per million square feet per operation	
Copper.....	32.7.....	16.4
Nickel.....	32.7.....	16.4
Cr, Total.....	32.7.....	16.4
CrVI.....	3.3.....	1.6
Zinc.....	32.7.....	16.4
CN, Total.....	32.7.....	16.4
CN, A.....	3.3.....	1.6
Fluoride.....	1303.....	651
Cadmium.....	19.2.....	9.6
Lead.....	32.7.....	16.4
Iron.....	65.4.....	32.7
Tin.....	65.4.....	32.7
Phosphorus.....	65.4.....	32.7
TSS.....	1303.....	651
pH.....	Within the range 6.0 to 9.5.	

(b) The post plating steps of chromating, if followed by a rinse, phosphating and coloring may be included under the term "operation" for the purpose of calculating effluent discharges, providing such steps are an integral part of the plating line.

(c) Stripping, where followed by a rinse and conducted in conjunction with electroplating for the purpose of salvaging improperly plated parts, may be included under the term "operation" for the purpose of calculating effluent discharges.

(d) Electroless plating on non-metallic materials for the purpose of providing a conductive surface on the basis material, preceding the actual electroplating step, forming an integral step in the plating line and followed by a rinse may be included under the term "operation" for the purpose of calculating effluent discharges.

(e) For any point source subject to such effluent limitations with a total employment of less than 11 persons, with a discharge from the establishment of waste water generated from the electroplating process of less than 7,800 liters per hour (2,061 gallons per hour) and with a production rate of less than 4.9 sq m per hour per employee (52.7 sq ft per hour per employee), the following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged:

Effluent characteristic	Effluent limitations	
	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
	(Metric units) milligrams per square meters per operation	
Copper.....	16.....	8
CN, A.....	16.....	8
CN, Total.....	160.....	80
Flow.....	Equalize.....	
pH.....	Within the range 6.0 to 9.0.	
	(English units) pounds per million square feet per operation	
CN, A.....	3.3.....	1.6
CN, Total.....	32.7.....	16.4
Flow.....	Equalize.....	
pH.....	Within the range 6.0 to 9.0.	

(f) Pursuant to section 308 of the Act, the owner or operator of a point source subject to the provisions of this subpart shall maintain records of production expressed in sq m or sq ft as defined in § 413.11 for the purpose of determining compliance with the effluent limitations in § 413.14(a) of this subpart. For the purpose of complying with the requirements of this paragraph, a discharger may establish a correlation between area plated and another parameter, such as ampere-hours used in plating.

§ 413.15 Standards of performance for new sources.

(a) The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a new source subject to the provisions of this subpart:

Effluent characteristic	Effluent limitations	
	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
	(Metric units) milligrams per square meters per operation	
Copper.....	80.....	40
Nickel.....	80.....	40
Cr, Total.....	80.....	40
CrVI.....	8.....	4
Zinc.....	80.....	40
CN, Total.....	80.....	40
CN, A.....	8.....	4
Fluoride.....	3200.....	1600
Cadmium.....	48.....	24
Lead.....	80.....	40
Iron.....	160.....	80
Tin.....	160.....	80
Phosphorus.....	160.....	80
TSS.....	3200.....	1600
pH.....	Within the range 6.0 to 9.5.	

Effluent characteristic	Effluent limitations	
	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
	(English units) pounds per million square feet per operation	
Copper.....	16.4.....	8.2
Nickel.....	16.4.....	8.2
Cr, Total.....	16.4.....	8.2
CrVI.....	1.6.....	0.8
Zinc.....	16.4.....	8.2
CN, Total.....	16.4.....	8.2
CN, A.....	1.6.....	0.8
Fluoride.....	634.....	327
Cadmium.....	9.6.....	4.8
Lead.....	16.4.....	8.2
Iron.....	32.7.....	16.4
Tin.....	32.7.....	16.4
Phosphorus.....	32.7.....	16.4
TSS.....	634.....	327
pH.....	Within the range 6.0 to 9.5.	

(b) Pursuant to section 308 of the Act, the owner or operator of a point source subject to the provisions of this subpart shall maintain records of production expressed in sq m or sq ft as defined in § 413.11 for the purpose of determining compliance with the effluent limitations in § 413.15(a) of this subpart. For the purpose of complying with the requirements of this paragraph, a discharger may establish a correlation between area plated and another parameter, such as ampere-hours used in plating.

§ 413.16 Pretreatment standards for new sources.

The pretreatment standard under section 307(c) of the Act for a new source

within the common metals plating subcategory which is a user of a publicly owned treatment works and a major contributing industry as defined in 40 CFR Part 128 (and which would be a new source subject to section 306 of the Act, if it were to discharge pollutants to the navigable waters), shall be the same standard as set forth in 40 CFR Part 128, for existing sources, except that, for the purpose of this section, 40 CFR 128.121, 128.122, 128.132, and 128.133 shall not apply.

(a) The following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties controlled by this section which may be discharged to a publicly owned treatment works by a new source subject to the provisions of this subpart:

Effluent characteristic	Effluent limitations	
	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
(Metric units) milligrams per square meters per operation		
Copper	80	40
Nickel	80	40
Cr, Total	80	40
CrVI	8	4
Zinc	80	40
CN, Total	80	40
CN, A	8	4
Fluoride	3,200	1,600
Cadmium	48	24
Lead	80	40
Iron	160	80
Tin	160	80
Phosphorus	160	80
TSS	3,200	1,600
pH	Within the range 6.0 to 9.5	

Effluent characteristic	Effluent limitations	
	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
(English units) pounds per million square feet per operation		
Copper	16.4	8.2
Nickel	16.4	8.2
Cr, Total	16.4	8.2
CrVI	1.6	0.8
Zinc	16.4	8.2
CN, Total	16.4	8.2
CN, A	1.6	0.8
Fluoride	654	327
Cadmium	9.6	4.8
Lead	16.4	8.2
Iron	32.7	16.4
Tin	32.7	16.4
Phosphorus	32.7	16.4
TSS	654	327
pH	Within the range 6.0 to 9.5	

(b) Pursuant to section 308 of the Act, the owner or operator of a point source subject to the provisions of this subpart shall maintain records of production expressed in sq m or sq ft as defined in § 413.11 for the purpose of determining compliance with the effluent limitations in § 413.16(a) of this subpart. For the purpose of complying with the requirements of this paragraph, a discharger may establish a correlation between area plated and another parameter, such as ampere-hours used in plating.

Subpart B—Electroplating of Precious Metals Subcategory

Subpart B is amended by adding §§ 413.23, 413.24, 413.25 and 413.26 as follows:

§ 413.23 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

(a) The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable: There shall be no discharge of process waste water pollutants to navigable waters.

§ 413.24 Pretreatment standards for existing sources.

The pretreatment standard under section 307(b) of the Act for a source within the precious metals plating subcategory which is a user of a publicly owned treatment works and a major contributing industry as defined in 40 CFR 128 (and which would be an existing point source subject to section 301 of the Act, if it were to discharge pollutants to the navigable waters), shall be the standard set forth in 40 CFR Part 128, except that, for the purpose of this section, 40 CFR 128.121, 128.122, 128.132, and 128.133 shall not apply.

(a) The following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties controlled by this section which may be discharged to a publicly owned treatment works by a point source subject to the provisions of this subpart:

Effluent characteristic	Effluent limitations	
	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
(Metric units) milligrams per square meters per operation		
Silver	16	8
Gold	16	8
CN, A	16	8
CN, Total	160	80
Cr, Total	160	80
CrVI	16	8
Iridium	16	8
Osmium	16	8
Palladium	16	8
Platinum	16	8
Rhodium	16	8
Ruthenium	16	8
Phosphorus	320	160
TSS	6,400	3,200
pH	Within the range 6.0 to 9.5	

Effluent characteristic	Effluent limitations	
	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
(English units) pounds per million square feet per operation		
Silver	3.3	1.6
Gold	3.3	1.6
CN, A	3.3	1.6
CN, Total	32.7	16.4
Cr, Total	32.7	16.4
CrVI	3.3	1.6
Iridium	3.3	1.6
Osmium	3.3	1.6
Palladium	3.3	1.6
Platinum	3.3	1.6
Rhodium	3.3	1.6
Ruthenium	3.3	1.6
Phosphorus	65.4	32.7
TSS	1,280	640
pH	Within the range 6.0 to 9.5	

(b) Stripping, where followed by a rinse and conducted in conjunction with electroplating for the purpose of salvaging improperly plated parts, may be included under the term "operation" for the purpose of calculating effluent discharges.

(c) Electroless plating on non-metallic materials for the purpose of providing a conductive surface on the basis material, preceding the actual electroplating step, forming an integral step in the plating line and followed by a rinse may be included under the term "operation" for the purpose of calculating effluent discharges.

(d) Pursuant to section 308 of the Act, the owner or operator of a point source subject to the provisions of this subpart shall maintain records of production expressed in sq m or sq ft as defined in § 413.11 for the purpose of determining compliance with the effluent limitations in § 413.24(a) of this subpart. For the purpose of complying with the requirements of this paragraph, a discharger may establish a correlation between area plated and another parameter, such as ampere-hours used in plating.

§ 413.25 Standards of performance for new sources.

(a) The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a new source subject to the provisions of this subpart:

Effluent characteristic	Effluent limitations	
	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
(Metric units) milligrams per square meters per operation		
Silver	8	4
Gold	8	4
CN, A	8	4
CN, Total	80	40
Cr, Total	80	40
CrVI	8	4
Iridium	8	4
Osmium	8	4
Palladium	8	4
Platinum	8	4
Rhodium	8	4
Ruthenium	8	4
Phosphorus	160	80
TSS	3,200	1,600
pH	Within the range 6.0 to 9.5	

Effluent characteristic	Effluent limitations	
	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
(English units) pounds per million square feet per operation		
Silver	1.6	0.8
Gold	1.6	0.8
CN, A	1.6	0.8
CN, Total	16.4	8.2
Cr, Total	16.4	8.2
CrVI	1.6	0.8
Iridium	1.6	0.8
Osmium	1.6	0.8
Palladium	1.6	0.8
Platinum	1.6	0.8
Rhodium	1.6	0.8
Ruthenium	1.6	0.8
Phosphorus	32.7	16.4
TSS	640	320
pH	Within the range 6.0 to 9.5	

(b) Pursuant to section 308 of the Act, the owner or operator of a point source subject to the provisions of this subpart shall maintain records of production expressed in sq m or sq ft as defined in § 413.11 for the purpose of determining compliance with the effluent limitations in § 413.25(a) of this subpart. For the purpose of complying with the requirements of this paragraph, a discharger may establish a correlation between area plated and another parameter, such as ampere-hours used in plating.

§ 413.26 Pretreatment standards for new sources.

The pretreatment standard under section 307(c) of the Act for a new source within the precious metals plating subcategory which is a user of a publicly owned treatment works and a major contributing industry as defined in 40 CFR Part 128 (and which would be a new source subject to section 306 of the Act, if it were to discharge pollutants to the navigable waters), shall be the same standard as set forth in 40 CFR Part 128, for existing sources, except that, for the purpose of this section, 40 CFR 128.121, 128.122, 128.132, and 128.133 shall not apply.

(a) The following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties controlled by this section which may be discharged to a publicly owned treatment works by a new source subject to the provisions of this subpart:

Effluent characteristic	Effluent limitations	
	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
(Metric units) milligrams per square meters per operation		
Silver	8	4
Gold	8	4
CN, A	8	4
CN, Total	80	40
Cr, Total	80	40
CrVI	8	4
Iridium	8	4
Osmium	8	4
Palladium	8	4
Platinum	8	4
Rhodium	8	4
Ruthenium	8	4
Phosphorus	160	80
TSS	3200	1600
pH	Within the range 6.0 to 9.5.	

Effluent characteristic	Effluent limitations	
	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
(English units) pounds per million square feet per operation		
Silver	1.6	0.8
Gold	1.6	0.8
CN, A	1.6	0.8
CN, Total	16.4	8.2
Cr, Total	16.4	8.2
CrVI	1.6	0.8
Iridium	1.6	0.8
Osmium	1.6	0.8
Palladium	1.6	0.8
Platinum	1.6	0.8
Rhodium	1.6	0.8
Ruthenium	1.6	0.8
Phosphorus	32.7	16.4
TSS	654	327
pH	Within the range 6.0 to 9.5.	

(b) Pursuant to section 308 of the Act, the owner or operator of a point

source subject to the provisions of this subpart shall maintain records of production expressed in sq m or sq ft as defined in § 413.11 for the purpose of determining compliance with the effluent limitations in § 413.26(a) of this subpart. For the purpose of complying with the requirements of this paragraph, a discharger may establish a correlation between area plated and another parameter, such as ampere-hours used in plating.

Subpart D—Anodizing Subcategory

Subpart D is amended by adding §§ 413.43, 413.44, 413.45 and 413.46 as follows:

§ 413.43 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

(a) The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable: there shall be no discharge of process waste water pollutants to navigable waters.

§ 413.44 Pretreatment standards for existing sources.

The pretreatment standard under section 307(b) of the Act for a source within the anodizing subcategory which is a user of a publicly owned treatment works and a major contributing industry as defined in 40 CFR Part 128 (and which would be an existing point source subject to section 301 of the Act, if it were to discharge pollutants to the navigable waters), shall be the standard set forth in 40 CFR Part 128, except that, for the purpose of this section, 40 CFR 128.121, 128.122, 128.132, and 128.133 shall not apply.

(a) The following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties controlled by this section which may be discharged to a publicly owned treatment works by a point source subject to the provisions of this subpart.

Pollutant or Pollutant Property	Pretreatment Standards	
	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
(Metric units) milligrams per square meters per operation		
Copper	90	45
Nickel	90	45
Cr, Total	90	45
CrVI	9	4.5
Zinc	90	45
CN, Total	90	45
CN, A	9	4.5
Fluoride	3600	1800
Cadmium	54	27
Iron	180	90
Tin	180	90
Phosphorus	180	90
TSS	3600	1800
pH	Within the range 6.0 to 9.5.	

Pollutant or Pollutant Property	Pretreatment Standards	
	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
(English units) lb/1000 lb of product		
Copper	18.4	9.2
Nickel	18.4	9.2
Cr, Total	18.4	9.2
CrVI	1.8	0.9
Zinc	18.4	9.2
CN, Total	18.4	9.2
CN, A	1.8	0.9
Fluoride	733	369
Cadmium	36.8	18.4
Iron	36.8	18.4
Tin	36.8	18.4
Phosphorus	36.8	18.4
TSS	733	369
pH	Within the range 6.0 to 9.5.	

(b) The post plating steps of chromating, phosphating and coloring, if followed by a rinse, may be included under the term "operation" for the purpose of calculating effluent discharges, providing such steps are an integral part of the plating line.

(c) Stripping, where followed by a rinse and conducted in conjunction with electroplating for the purpose of salvaging improperly plated parts, may be included under the term "operation" for the purpose of calculating effluent discharges.

(d) Electroless plating on non-metallic materials for the purpose of providing a conductive surface on the basis material, preceding the actual electroplating step, forming an integral step in the plating line and followed by a rinse may be included under the term "operation" for the purpose of calculating effluent discharges.

(e) For any point source subject to such effluent limitations with a total employment of less than 11 persons, with a discharge from the establishment of waste water generated from the metal finishing process of less than 7,800 liters per hour (2,061 gallons per hour) and with a production rate of less than 4.9 sq m per hour per employee (52.7 sq ft per hour per employee), the following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged:

Effluent characteristic	Effluent limitations	
	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
(Metric units) milligrams per square meters per operation		
CN, A	9	4.5
CN, Total	90	45
Flow	Equalize	
pH	Within the range 6.0 to 9.0.	
(English units) pounds per million square feet per operation		
CN, A	1.8	0.9
CN, Total	18.4	9.2
Flow	Equalize	
pH	Within the range 6.0 to 9.0.	

(f) Pursuant to section 308 of the Act, point source subject to the provisions of this subpart shall maintain records of production expressed in sq m or sq ft as defined in § 413.11 for the purpose of determining compliance with the effluent limitations in § 413.44(a) of this subpart. For the purpose of complying with the requirements of this paragraph, a discharger may establish a correlation between area plated and another parameter, such as ampere-hours used in plating.

§ 413.45 Standards of performance for new sources.

(a) The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a new source subject to the provisions of this subpart:

Pretreatment Standards		
Pollutant or Pollutant Property	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
(Metric units) milligrams per square meters per operation		
Copper	45	23
Nickel	45	23
Cr, Total	45	23
CrVI	4.5	2.3
Zinc	45	23
CN, Total	45	23
CN, A	4.5	2.3
Fluoride	1800	900
Cadmium	27	14
Iron	90	45
Tin	90	45
Phosphorus	90	45
TSS	1800	900
pH	Within the range 6.0 to 9.5.	
(English units) pounds per million square feet per operation		
Copper	9.2	4.6
Nickel	9.2	4.6
Cr, Total	9.2	4.6
CrVI	.92	.46
Zinc	9.2	4.6
CN, Total	9.2	4.6
CN, A	.92	.46
Fluoride	369	185
Cadmium	4.4	2.2
Iron	18.4	9.2
Tin	18.4	9.2
Phosphorus	18.4	9.2
TSS	369	185
pH	Within the range 6.0 to 9.5.	

(b) Pursuant to section 308 of the Act, the owner or operator of a point source subject to the provisions of this subpart shall maintain records of production expressed in sq m or sq ft as defined in § 413.11 for the purpose of determining compliance with the effluent limitations in § 413.45(a) of this subpart. For the purpose of complying with the requirements of this paragraph, a discharger may establish a correlation between area plated and another parameter, such as ampere-hours used in plating.

§ 413.46 Pretreatment standards for new sources.

The pretreatment standard under section 307(c) of the Act for a new source within the anodizing subcategory which is a user of a publicly owned treatment works and a major contribut-

ing industry as defined in 40 CFR Part 128 (and which would be a new source subject to section 306 of the Act, if it were to discharge pollutants to the navigable waters), shall be the same standard as set forth in 40 CFR Part 128, for existing sources, except that, for the purpose of this section, 40 CFR 128.121, 128.122, 128.132, and 128.133 shall not apply.

(a) The following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties controlled by this section which may be discharged to a publicly owned treatment works by a new source subject to the provisions of this subpart:

Pretreatment Standards		
Pollutant or Pollutant Property	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
(Metric units) milligrams per square meters per operation		
Copper	45	23
Nickel	45	23
Cr, Total	45	23
CrVI	4.5	2.3
Zinc	45	23
CN, Total	45	23
CN, A	4.5	2.3
Fluoride	1800	900
Cadmium	27	14
Iron	90	45
Tin	90	45
Phosphorus	90	45
TSS	1800	900
pH	Within the range 6.0 to 9.5.	
(English units) pounds per million square feet per operation		
Copper	9.2	4.6
Nickel	9.2	4.6
Cr, Total	9.2	4.6
CrVI	.92	.46
Zinc	9.2	4.6
CN, Total	9.2	4.6
CN, A	.92	.46
Fluoride	369	185
Cadmium	4.4	2.2
Iron	18.4	9.2
Tin	18.4	9.2
Phosphorus	18.4	9.2
TSS	369	185
pH	Within the range 6.0 to 9.5.	

(b) Pursuant to section 308 of the Act, the owner or operator of a point source subject to the provisions of this subpart shall maintain records of production expressed in sq m or sq ft as defined in § 413.11 for the purpose of determining compliance with the effluent limitations in § 413.46(a) of this subpart. For the purpose of complying with the requirements of this paragraph, a discharger may establish a correlation between area plated and another parameter, such as ampere-hours used in plating.

Subpart E—Coatings Subcategory

Subpart E is amended by adding §§ 413.53, 413.54, 413.55, and 413.56 as follows:

§ 413.53 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

(a) The following limitations establish the quantity or quality of pollutants

or pollutant properties, controlled by this section, which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable: There shall be no discharge of process waste water pollutants to navigable waters.

§ 413.54 Pretreatment standards for existing sources.

The pretreatment standard under section 307(b) of the Act for a source within the coatings-subcategory which is a user of a publicly owned treatment works and a major contributing industry as defined in 40 CFR Part 128 (and which would be an existing point source subject to section 301 of the Act, if it were to discharge pollutants to the navigable waters), shall be the standard set forth in 40 CFR Part 128, except that, for the purpose of this section, 40 CFR §§ 128.121, 128.122, 128.132, and 128.133 shall not apply.

(a) The following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties controlled by this section which may be discharged to a publicly owned treatment works by a point source subject to the provisions of this subpart.

Pretreatment Standards		
Pollutant or Pollutant Property	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
(Metric units) milligrams per square meters per operation		
Copper	80	49
Nickel	80	49
Cr, Total	80	49
CrVI	8	4
Zinc	80	49
CN, Total	80	49
CN, A	8	4
Fluoride	3600	1800
Cadmium	43	21
Iron	160	80
Tin	160	80
Phosphorus	160	80
TSS	2600	1300
pH	Within the range 6.0 to 9.5.	
(English units) pounds per million square feet per operation		
Copper	16.4	8.2
Nickel	16.4	8.2
Cr, Total	16.4	8.2
CrVI	.82	.41
Zinc	16.4	8.2
CN, Total	16.4	8.2
CN, A	1.6	.82
Fluoride	613	303
Cadmium	9.8	4.9
Iron	32.8	16.4
Tin	32.8	16.4
Phosphorus	32.8	16.4
TSS	613	303
pH	Within the range 6.0 to 9.5.	

(b) The post plating steps of chromating, phosphating and coloring, if followed by a rinse, may be included under the term "operation" for the purpose of calculating effluent discharges, providing such steps are an integral part of the plating line.

(c) Stripping, where followed by a rinse and conducted in conjunction with electroplating for the purpose of salvag-

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ing improperly plated parts, may be included under the term "operation" for the purpose of calculating effluent discharges.

(d) Electroless plating on non-metallic materials for the purpose of providing a conductive surface on the basis material, preceding the actual electroplating step, forming an integral step in the plating line and followed by a rinse may be included under the term "operation" for the purpose of calculating effluent discharges.

(e) For any point source subject to such effluent limitations with a total employment of less than 11 persons, with a discharge from the establishment of waste water generated from the metal finishing process of less than 7,800 liters per hour (2,061 gallons per hour) and with a production rate of less than 4.9 sq m per hour per employee (52.7 sq ft per hour per employee), the following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged:

Effluent characteristic	Effluent limitations	
	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
Copper	40	20
Nickel	40	20
Cr, Total	40	20
CrVI	4	2
Zinc	40	20
CN, Total	40	20
CN, A	4	2
Fluoride	1800	900
Cadmium	24	12
Iron	80	40
Tin	80	40
Phosphorus	80	40
TSS	1800	900
pH	Within the range 6.0 to 9.5.	

(Metric units) milligrams per square meters per operation

CN, A	8	4
CN, Total	80	40
Flow	Equalize	
pH	Within the range 6.0 to 9.0.	

(English units) pounds per million square feet per operation

CN, A	1.6	0.82
CN, Total	16.4	8.2
Flow	Equalize	
pH	Within the range 6.0 to 9.0.	

(f) Pursuant to section 308 of the Act, the owner or operator of a point source subject to the provisions of this subpart shall maintain records of production expressed in sq m or sq ft as defined in § 413.11 for the purpose of determining compliance with the effluent limitations in § 413.54(a) of this subpart. For the purpose of complying with the requirements of this paragraph, a discharger may establish a correlation between area plated and another parameter, such as ampere-hours used in plating.

§ 413.55 Standards of performance for new sources.

(a) The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a new source subject to the provisions of this subpart:

Effluent characteristic	Effluent limitations	
	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
Copper	40	20
Nickel	40	20
Cr, Total	40	20
CrVI	4	2
Zinc	40	20
CN, Total	40	20
CN, A	4	2
Fluoride	1800	900
Cadmium	24	12
Iron	80	40
Tin	80	40
Phosphorus	80	40
TSS	1800	900
pH	Within the range 6.0 to 9.5.	

(English units) pounds per million square feet per operation

Copper	8.2	4.1
Nickel	8.2	4.1
Cr, Total	8.2	4.1
CrVI	0.82	0.41
Zinc	8.2	4.1
CN, Total	8.2	4.1
CN, A	0.82	0.41
Fluoride	323	161
Cadmium	4.9	2.5
Iron	16.4	8.2
Tin	16.4	8.2
Phosphorus	16.4	8.2
TSS	323	161
pH	Within the range 6.0 to 9.5.	

(b) Pursuant to section 308 of the Act, the owner or operator of a point source subject to the provisions of this subpart shall maintain records of production expressed in sq m or sq ft as defined in § 413.11 for the purpose of determining compliance with the effluent limitations in § 413.55(a) of this subpart. For the purpose of complying with the requirements of this paragraph, a discharger may establish a correlation between area plated and another parameter, such as ampere-hours used in plating.

§ 413.56 Pretreatment standards for new sources.

The pretreatment standard under section 307(c) of the Act for a new source within the coatings subcategory which is a user of a publicly owned treatment works and a major contributing industry as defined in 40 CFR Part 128 (and which would be a new source subject to section 306 of the Act, if it were to discharge pollutants to the navigable waters), shall be the same standard as set forth in 40 CFR Part 128, for existing sources, except that, for the purpose of this section, 40 CFR 128.121, 128.122, 128.132, and 128.133 shall not apply.

(a) The following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties controlled by this section which may be discharged to a publicly owned treatment works by a new source subject to the provisions of this subpart:

Pollutant or Pollutant Property	Pretreatment Standards	
	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
Copper	40	20
Nickel	40	20
Cr, Total	40	20
CrVI	4	2
Zinc	40	20
CN, Total	40	20
CN, A	4	2
Fluoride	1800	900
Cadmium	24	12
Iron	80	40
Tin	80	40
Phosphorus	80	40
TSS	1800	900
pH	Within the range 6.0 to 9.5.	

(English units) pounds per million square feet per operation

Copper	8.2	4.1
Nickel	8.2	4.1
Cr, Total	8.2	4.1
CrVI	0.82	0.41
Zinc	8.2	4.1
CN, Total	8.2	4.1
CN, A	0.82	0.41
Fluoride	323	161
Cadmium	4.9	2.5
Iron	16.4	8.2
Tin	16.4	8.2
Phosphorus	16.4	8.2
TSS	323	161
pH	Within the range 6.0 to 9.5.	

(b) Pursuant to section 308 of the Act, the owner or operator of a point source subject to the provisions of this subpart shall maintain records of production expressed in sq m or sq ft as defined in § 413.11 for the purpose of determining compliance with the effluent limitations in § 413.56(a) of this subpart. For the purpose of complying with the requirements of this paragraph, a discharger may establish a correlation between area plated and another parameter, such as ampere-hours used in plating.

Subpart F—Chemical Etching and Milling Subcategory

Subpart F is amended by adding §§ 413.63, 413.64, 413.65, and 413.66 as follows:

§ 413.63 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

(a) The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable: there shall be no discharge of process waste water pollutants to navigable waters.

§ 413.64 Pretreatment standards for existing sources.

The pretreatment standard under section 307(b) of the Act for a source within the chemical etching and milling subcategory which is a user of a publicly owned treatment works and a major contributing industry as defined in 40 CFR Part 128 (and which would be an existing point source subject to section 301 of the Act, if it were to discharge pollutants to the navigable waters), shall be the standard set forth in 40 CFR Part 128, except that, for the purpose of this section, 40 CFR 128.121, 128.122, 128.132, and 128.133 shall not apply.

(a) The following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties controlled by this section which may be discharged to a publicly owned treatment works by a point source subject to the provisions of this subpart.

Pollutant or Pollutant Property	Pretreatment Standards	
	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
(Metric units) milligrams per square meters per operation		
Copper	120	60
Nickel	120	60
Cr, Total	120	60
CrVI	12	6
Zinc	120	60
CN, Total	120	60
CN, A	12	9
Fluoride	4800	2400
Cadmium	72	36
Iron	240	120
Tin	240	120
Phosphorus	240	120
TSS	4800	2400
pH	Within the range 6.0 to 9.5.	
(English units) pounds per million square feet per operation		
Copper	24.6	12.3
Nickel	24.6	12.3
Cr, Total	24.6	12.3
CrVI	2.4	1.2
Zinc	24.6	12.3
CN, Total	24.6	12.3
CN, A	3.8	1.9
Fluoride	984	492
Cadmium	14.8	7.4
Iron	49.2	24.6
Tin	49.2	24.6
Phosphorus	49.2	24.6
TSS	984	492
pH	Within the range 6.0 to 9.5.	

Pollutant or Pollutant Property	Pretreatment Standards	
	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
(Metric units) milligrams per square meters per operation		
Copper	120	60
Nickel	120	60
Cr, Total	120	60
CrVI	12	6
Zinc	120	60
CN, Total	120	60
CN, A	12	9
Fluoride	4800	2400
Cadmium	72	36
Iron	240	120
Tin	240	120
Phosphorus	240	120
TSS	4800	2400
pH	Within the range 6.0 to 9.5.	
(English units) pounds per million square feet per operation		
Copper	24.6	12.3
Nickel	24.6	12.3
Cr, Total	24.6	12.3
CrVI	2.4	1.2
Zinc	24.6	12.3
CN, Total	24.6	12.3
CN, A	3.8	1.9
Fluoride	984	492
Cadmium	14.8	7.4
Iron	49.2	24.6
Tin	49.2	24.6
Phosphorus	49.2	24.6
TSS	984	492
pH	Within the range 6.0 to 9.5.	

(b) The post plating steps of chromating, phosphating and coloring, if followed by a rinse, may be included under the term "operation" for the purpose of calculating effluent discharges, providing such steps are an integral part of the plating line.

(c) Stripping, where followed by a rinse and conducted in conjunction with electroplating for the purpose of salvaging improperly plated parts, may be

included under the term "operation" for the purpose of calculating effluent discharges.

(d) Electrolysis plating on non-metallic materials for the purpose of providing a conductive surface on the basis material, preceding the actual electroplating step, forming an integral step in the plating line and followed by a rinse may be included under the term "operation" for the purpose of calculating effluent discharges.

(e) For any point source subject to such effluent limitations with a total employment of less than 11 persons, with a discharge from the establishment of waste water generated from the metal finishing process of less than 7,800 liters per hour (2,061 gallons per hour) and with a production rate of less than 4.9 sq m per hour per employee (52.7 sq ft per hour per employee), the following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged:

Effluent characteristic	Effluent Limitations	
	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
(Metric units) milligrams per square meters per operation		
Copper	60	30
Nickel	60	30
Cr, Total	60	30
CrVI	6	3
Zinc	60	30
CN, Total	60	30
CN, A	9	5
Fluoride	2400	1200
Cadmium	24	18
Iron	120	60
Tin	120	60
Phosphorus	120	60
TSS	2400	1200
pH	Within the range 6.0 to 9.5.	
(English units) pounds per million square feet per operation		
Copper	12.3	6.2
Nickel	12.3	6.2
Cr, Total	12.3	6.2
CrVI	1.2	0.6
Zinc	12.3	6.2
CN, Total	12.3	6.2
CN, A	1.9	0.9
Fluoride	492	246
Cadmium	7.4	3.7
Iron	24.6	12.3
Tin	24.6	12.3
Phosphorus	24.6	12.3
TSS	492	246
pH	Within the range 6.0 to 9.5.	

ON, A	9	4.5
ON, Total	90	45
Flow	Equalize	
pH	Within the range 6.0 to 9.0.	

ON, A	1.8	0.9
ON, Total	18.4	9.2
Flow	Equalize	
pH	Within the range 6.0 to 9.0.	

(f) Pursuant to section 308 of the Act, point source subject to the provisions of this subpart shall maintain records of production expressed in sq m or sq ft as defined in § 413.11 for the purpose of determining compliance with the effluent limitations in § 413.64(a) of this subpart. For the purpose of complying with the requirements of this paragraph, a discharger may establish a correlation between area plated and another parameter, such as ampere-hours used in plating.

§ 413.65 Standards of performance for new sources.

(a) The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a new source subject to the provisions of this subpart:

Effluent characteristic	Effluent Limitations	
	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
(Metric units) milligrams per square meters per operation		
Copper	60	30
Nickel	60	30
Cr, Total	60	30
CrVI	6	3
Zinc	60	30
CN, Total	60	30
CN, A	9	5
Fluoride	2400	1200
Cadmium	24	18
Iron	120	60
Tin	120	60
Phosphorus	120	60
TSS	2400	1200
pH	Within the range 6.0 to 9.5.	

ON, A	9	4.5
ON, Total	90	45
Flow	Equalize	
pH	Within the range 6.0 to 9.0.	

(b) Pursuant to section 308 of the Act, the owner or operator of a point source subject to the provisions of this subpart shall maintain records of production expressed in sq m or sq ft as defined in § 413.11 for the purpose of determining compliance with the effluent limitations in § 413.65(a) of his subpart. For the purpose of complying with the requirements of this paragraph, a discharger may establish a correlation between area plated and another parameter, such as ampere-hours used in plating.

§ 413.66 Pretreatment standards for new sources.

The pretreatment standard under section 307(c) of the Act for a new source within the chemical etching and milling subcategory which is a user of a publicly owned treatment works and a major contributing industry as defined in 40 CFR Part 128 (and which would be a new source subject to section 306 of the Act, if it were to discharge pollutants to the navigable waters), shall be the same standard as set forth in 40 CFR Part 128, for existing sources, except that, for the purpose of this section, 40 CFR §§ 128.121, 128.122, 128.132 and 128.133 shall not apply.

(a) The following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties controlled by this section which may be dis-

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charged to a publicly owned treatment works by a new source subject to the provisions of this subpart:

Pollutant or pollutant property	Pretreatment standards	
	Maximum for any one day	Average of daily values for thirty consecutive days shall not exceed—
(Metric units) milligrams per square meters per operation		
Copper.....	60.....	30
Nickel.....	60.....	30
Cr, Total.....	60.....	30
CrVI.....	6.....	3
Zinc.....	60.....	30
CN, Total.....	60.....	30
CN, A.....	9.....	5
Fluoride.....	2400.....	1200
Cadmium.....	36.....	18
Iron.....	120.....	60
Tin.....	120.....	60
Phosphorus.....	120.....	60
TSS.....	2400.....	1200
pH.....	Within the range 6.0 to 9.5.	

(English units) pounds per million square feet per operation		
Copper.....	12.3.....	6.2
Nickel.....	12.3.....	6.2
Cr, Total.....	12.3.....	6.2
CrVI.....	1.2.....	0.6
Zinc.....	12.3.....	6.2
CN, Total.....	12.3.....	6.2
CN, A.....	1.9.....	0.9
Fluoride.....	492.....	246
Cadmium.....	7.4.....	3.7
Iron.....	24.6.....	12.3
Tin.....	24.6.....	12.3
Phosphorus.....	24.6.....	12.3
TSS.....	492.....	246
pH.....	Within the range 6.0 to 9.5.	

(b) Pursuant to section 308 of the Act, the owner or operator of a point source subject to the provisions of this subpart shall maintain records of production expressed in sq m or sq ft as defined in § 413.66 for the purpose of determining compliance with the effluent limitations in § 413.15(a) of this subpart. For the purpose of complying with the requirements of this paragraph, a discharger may establish a correlation between area plated and another parameter, such as ampere-hours used in plating.

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