

§ 413.01

SOURCE: 46 FR 9467, Jan. 28, 1981, unless otherwise noted.

GENERAL PROVISIONS

§ 413.01 Applicability and compliance dates.

(a) This part shall apply to electroplating operations in which metal is electroplated on any basis material and to related metal finishing operations as set forth in the various subparts, whether such operations are conducted in conjunction with electroplating, independently, or as part of some other operation. The compliance deadline for metals and cyanide at integrated facilities shall be June 30, 1984. The compliance date for metals and cyanide at non-integrated facilities shall be April 27, 1984. Compliance with TTO for all facilities shall be July 15, 1986. These part 413 standards shall not apply to a facility which must comply with all the pollutant limitations listed in § 433.15 (metal finishing PSES).

(b) Operations similar to electroplating which are specifically excepted from coverage of this part include:

(1) Electrowinning and electrorefining conducted as a part of nonferrous metal smelting and refining (40 CFR part 421);

(2) Metal surface preparation and conversion coating conducted as a part of coil coating (40 CFR part 465);

(3) Metal surface preparation and immersion plating or electroless plating conducted as a part of porcelain enameling (40 CFR part 466); and

(4) Electrodeposition of active electrode materials, electroimpregnation, and electroforming conducted as a part of battery manufacturing (40 CFR part 461).

(c) Metallic platemaking and gravure cylinder preparation conducted within or for printing and publishing facilities, and continuous strip electroplating conducted within iron and steel manufacturing facilities which introduce pollutants into a publicly owned treatment works are exempted from

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the pretreatment standards for existing sources set forth in this part.

(Secs. 301, 304, 306, 307, 308, and 501 of the Clean Water Act (the Federal Water Pollution Control Act Amendments of 1972, 33 U.S.C. 1251 *et. seq.*, as amended by the Clean Water Act of 1977, Pub. L. 95-217))

[46 FR 9467, Jan. 28, 1981, as amended at 48 FR 32482, July 15, 1983; 48 FR 41410, Sept. 15, 1983; 51 FR 40421, Nov. 7, 1986]

§ 413.02 General definitions.

In addition to the definitions set forth in 40 CFR part 401 and the chemical analysis methods set forth in 40 CFR part 136, both of which are incorporated herein by reference, the following definitions apply to this part:

(a) The term *CN,A* shall mean cyanide amenable to chlorination as defined by 40 CFR 136.

(b) The term *CN,T* shall mean cyanide, total.

(c) The term *Cr,VI* shall mean hexavalent chromium.

(d) The term *electroplating process wastewater* shall mean process wastewater generated in operations which are subject to regulation under any of subparts A through H of this part.

(e) The term *total metal* is defined as the sum of the concentration or mass of Copper (Cu), Nickel (Ni), Chromium (Cr) (total) and Zinc (Zn).

(f) The term *strong chelating agents* is defined as all compounds which, by virtue of their chemical structure and amount present, form soluble metal complexes which are not removed by subsequent metals control techniques such as pH adjustment followed by clarification or filtration.

(g) The term *control authority* is defined as the POTW if it has an approved pretreatment program; in the absence of such a program, the NPDES State if it has an approved pretreatment program or EPA if the State does not have an approved program.

(h) The term *integrated facility* is defined as a facility that performs electroplating as only one of several operations necessary for manufacture of a product at a single physical location and has significant quantities of process wastewater from non-electroplating manufacturing operations. In addition, to qualify as an "integrated facility"

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one or more plant electroplating process wastewater lines must be combined prior to or at the point of treatment (or proposed treatment) with one or more plant sewers carrying process wastewater from non-electroplating manufacturing operations.

(i) the term *TTO* shall mean total toxic organics, which is the summation of all quantifiable values greater than 0.01 milligrams per liter for the following toxic organics:

Acenaphthene
 Acrolein
 Acrylonitrile
 Benzene
 Benzidine
 Carbon tetrachloride (tetrachloromethane)
 Chlorobenzene
 1,2,4-trichlorobenzene
 Hexachlorobenzene
 1,2-dichloroethane
 1,1,1-trichloroethane
 Hexachloroethane
 1,1-dichloroethane
 1,1,2-trichloroethane
 1,1,2,2-tetrachloroethane
 Chloroethane
 Bis (2-chloroethyl) ether
 2-chloroethyl vinyl ether (mixed)
 2-chloronaphthalene
 2,4,6-trichlorophenol
 Parachlorometa cresol
 Chloroform (trichloromethane)
 2-chlorophenol
 1,2-dichlorobenzene
 1,3-dichlorobenzene
 1,4-dichlorobenzene
 3,3-dichlorobenzidine
 1,1-dichloroethylene
 1,2-trans-dichloroethylene
 2,4-dichlorophenol
 1,2-dichloropropane
 1,3-dichloropropylene (1,3-dichloropropene)
 2,4-dimethylphenol
 2,4-dinitrotoluene
 2,6-dinitrotoluene
 1,2-diphenylhydrazine
 Ethylbenzene
 Fluoranthene
 4-chlorophenyl phenyl ether
 4-bromophenyl phenyl ether
 Bis (2-chloroisopropyl) ether
 Bis (2-chloroethoxy) methane
 Methylene chloride (dichloromethane)
 Methyl chloride (chloromethane)
 Methyl bromide (bromomethane)
 Bromoform (tribromomethane)
 Dichlorobromomethane
 Chlorodibromomethane
 Hexachlorobutadiene
 Hexachlorocyclopentadiene
 Isophorone
 Naphthalene
 Nitrobenzene
 2-nitrophenol
 4-nitrophenol
 2,4-dinitrophenol
 4,6-dinitro-o-cresol
 N-nitrosodimethylamine
 N-nitrosodiphenylamine
 N-nitrosodi-n-propylamine
 Pentachlorophenol
 Phenol
 Bis (2-ethylhexyl) phthalate
 Butyl benzyl phthalate
 Di-n-butyl phthalate
 Di-n-octyl phthalate
 Diethyl phthalate
 Dimethyl phthalate
 1,2-benzanthracene
 (benzo(a)anthracene)
 Benzo(a)pyrene (3,4-benzopyrene)
 3,4-Benzofluoranthene
 (benzo(b)fluoranthene)
 11,12-benzofluoranthene
 (benzo(k)fluoranthene)
 Chrysene
 Acenaphthylene
 Anthracene
 1,12-benzoperylene
 (benzo(ghi)perylene)
 Fluorene
 Phenanthrene
 1,2,5,6-dibenzanthracene
 (dibenzo(a,h)anthracene)
 Indeno (1,2,3-cd) pyrene)
 (2,3-o-phenylene pyrene)
 Pyrene
 Tetrachloroethylene
 Toluene
 Trichloroethylene
 Vinyl chloride (chloroethylene)
 Aldrin
 Dieldrin
 Chlordane (technical mixture and metabolites)
 4,4-DDT
 4,4-DDE (p,p-DDX)
 4,4-DDD (p,p-TDE)
 Alpha-endosulfan
 Beta-endosulfan
 Endosulfan sulfate
 Endrin
 Endrin aldehyde
 Heptachlor
 Heptachlor epoxide
 (BHC-hexachlorocyclohexane)
 Alpha-BHC
 Beta-BHC
 Gamma-BHC
 Delta-BHC
 (PCB-polychlorinated biphenyls)
 PCB-1242 (Arochlor 1242)
 PCB-1254 (Arochlor 1254)
 PCB-1221 (Arochlor 1221)
 PCB-1232 (Arochlor 1232)
 PCB-1248 (Arochlor 1248)
 PCB-1260 (Arochlor 1260)
 PCB-1016 (Arochlor 1016)
 Toxaphene
 2,3,7,8-tetrachlorodibenzo-

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p-dioxin (TCDD)

(Secs. 301, 304, 306, 307, 308, and 501 of the Clean Water Act (the Federal Water Pollution Control Act Amendments of 1972, 33 U.S.C. 1251 *et. seq.*, as amended by the Clean Water Act of 1977, Pub. L. 95-217))

[46 FR 9467, Jan. 28, 1981, as amended at 48 FR 32483, July 15, 1983; 48 FR 43681, Sept. 26, 1983; 51 FR 40421, Nov. 7, 1986]

§ 413.03 Monitoring requirements.

(a) In lieu of monitoring for TTO, the control authority may allow industrial users of POTWs to make the following certification as a comment to the periodic reports required by § 403.12(e): “Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the control authority.”

(b) In requesting that no monitoring be required industrial users of POTWs shall submit a toxic organic management plan that specifies to the control authority’s satisfaction the toxic organic compounds used; the method of disposal used instead of dumping, such as reclamation, contract hauling, or incineration; and procedures for assuring that toxic organics do not routinely spill or leak into the wastewater.

(c) If monitoring is necessary to measure compliance with the TTO standard the industrial user need analyze only for those pollutants which would reasonably be expected to be present.

(Approved by the Office of Management and Budget under control number 2040-0074)

(Secs. 301, 304, 306, 307, 308, and 501 of the Clean Water Act (the Federal Water Pollution Control Act Amendments of 1972, 33 U.S.C. 1251 *et. seq.*, as amended by the Clean Water Act of 1977, Pub. L. 95-217))

[48 FR 32483, July 15, 1983; 48 FR 43681, Sept. 26, 1983, as amended at 49 FR 34823, Sept. 4, 1984]

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§ 413.04 Standards for integrated facilities.

Pretreatment standards for integrated facilities shall be computed as required by § 403.6(e) of EPA’s General Pretreatment Regulations. In cases where electroplating process wastewaters are combined with regulated wastewaters which have 30 days average standards, the corresponding 30 day average standard for the electroplating wastewaters must be used. The 30 day average shall be determined for pollutants in the relevant subcategory from the corresponding daily and 4 day average values listed in the table below.

If the maximum for any 1 day is	And the 4 day average is	Then the 30 day average is
0.6	0.4	0.3
1.2	.7	.5
1.9	1	.55
4.1	2.6	1.8
4.2	2.6	1.8
4.5	2.7	1.8
5.0	2.7	1.5
7.0	4	2.5
10.5	6.8	5
20.0	13.4	10
23	16	12
47	29	20
53	36	27
74	39	21
107	65	45
169	89	49
160	100	70
164	102	70
176	105	70
273	156	98
365	229	160
374	232	160
401	241	160
410	267	195
623	257	223
935	609	445

Subpart A—Electroplating of Common Metals Subcategory

§ 413.10 Applicability: Description of the electroplating of common metals subcategory.

The provisions of this subpart apply to dischargers of pollutants in process wastewaters resulting from the process in which a ferrous or nonferrous basis material is electroplated with copper, nickel, chromium, zinc, tin, lead, cadmium, iron, aluminum, or any combination thereof.