

§ 413.20

| | |
|---------------------------------|-----------------------------|
| Pollutant or pollutant property | Maximum for any 1 day |
| | Milligrams per liter (mg/l) |
| TTO | 4.57 |

(g) In addition to paragraphs (a), (c), (d), and (e) the following limitation shall apply for plants discharging 38,000 l (10,000 gal) or more per calendar day of electroplating process wastewater:

| | |
|---------------------------------|-----------------------------|
| Pollutant or pollutant property | Maximum for any 1 day |
| | Milligrams per liter (mg/l) |
| TTO | 2.13 |

(h) In addition to paragraphs (a), (b), (c), (d), (e), (f), and (g) the following shall apply: An existing source submitting a certification in lieu of monitoring pursuant to §413.03 of this regulation must implement the toxic organic management plan approved by the control authority.

(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; 46 FR 30626, June 10, 1981, as amended at 48 FR 32483, July 15, 1983; 48 FR 43681, Sept. 26, 1983]

Subpart B—Electroplating of Precious Metals Subcategory

§ 413.20 Applicability: Description of the electroplating of precious metals subcategory.

The provisions of this subpart apply to discharges of process wastewaters resulting from the process in which a ferrous or nonferrous basis material is plated with gold, silver, iridium, palladium, platinum, rhodium, ruthenium, or any combination of these.

§ 413.21 Specialized definitions.

For the purpose of this subpart:

(a) The term *sq m* ("sq ft") shall mean the area plated expressed in square meters (square feet).

(b) The term *operation* shall mean any step in the electroplating process in which a metal is electrodeposited on a basis material and which is followed by a rinse: This includes the related operations of alkaline cleaning, acid

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pickle, stripping, and coloring when each operation is followed by a rinse.

§§ 413.22-413.23 [Reserved]

§ 413.24 Pretreatment standards for existing sources.

Except as provided in 40 CFR §§403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources (PSES):

(a) No user introducing wastewater pollutants into a publicly owned treatment works under the provisions of this subpart shall augment the use of process wastewater or otherwise dilute the wastewater as a partial or total substitute for adequate treatment to achieve compliance with this standard.

(b) For a source discharging less than 38,000 liters (10,000 gal) per calendar day of electroplating process wastewater the following limitations shall apply:

SUBPART B—PRECIOUS METALS FACILITIES DISCHARGING LESS THAN 38,000 LITERS PER DAY PSES LIMITATIONS (MG/L)

| Pollutant or pollutant property | Maximum for any 1 day | Average of daily values for 4 consecutive monitoring days shall not exceed |
|---------------------------------|-----------------------|--|
| CN, A | 5.0 | 2.7 |
| Pb | .6 | .4 |
| Cd | 1.2 | .7 |

(c) For plants discharging 38,000 liters (10,000 gal) or more per calendar day of electroplating process wastewater the following limitations shall apply:

SUBPART B—PRECIOUS METALS FACILITIES DISCHARGING 38,000 LITERS OR MORE PER DAY PSES LIMITATIONS (MG/L)

| Pollutant or pollutant property | Maximum for any 1 day | Average of daily values for 4 consecutive monitoring days shall not exceed |
|---------------------------------|-----------------------|--|
| Ag | 1.2 | 0.7 |
| CN, T | 1.9 | 1.0 |
| Cu | 4.5 | 2.7 |
| Ni | 4.1 | 2.6 |
| Cr | 7.0 | 4.0 |
| Zn | 4.2 | 2.6 |

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SUBPART B—PRECIOUS METALS FACILITIES DISCHARGING 38,000 LITERS OR MORE PER DAY PSES LIMITATIONS (MG/L)—Continued

| Pollutant or pollutant property | Maximum for any 1 day | Average of daily values for 4 consecutive monitoring days shall not exceed |
|---------------------------------|-----------------------|--|
| Pb | .6 | .4 |
| Cd | 1.2 | .7 |
| Total metals | 10.5 | 6.8 |

(d) Alternatively, the following mass-based standards are equivalent to and may apply in place of those limitations specified under paragraph (c) of this section upon prior agreement between a source subject to these standards and the publicly owned treatment works receiving such regulated wastes:

SUBPART B—PRECIOUS METALS FACILITIES DISCHARGING 38,000 LITERS OR MORE PER DAY PSES LIMITATIONS (MG/SQ M-OPERATION)

| Pollutant or pollutant property | Maximum for any 1 day | Average of daily values for 4 consecutive monitoring days shall not exceed |
|---------------------------------|-----------------------|--|
| Ag | 47 | 29 |
| CN, T | 74 | 39 |
| Cu | 176 | 105 |
| Ni | 160 | 100 |
| Cr | 273 | 156 |
| Zn | 164 | 102 |
| Pb | 23 | 16 |
| Cd | 47 | 29 |
| Total metals | 410 | 267 |

(e) For wastewater sources regulated under paragraph (c) of this section, the following optional control program may be elected by the source introducing treated process wastewater into a publicly owned treatment works with the concurrence of the control authority. These optional pollutant parameters are not eligible for allowance for removal achieved by the publicly owned treatment works under 40 CFR 403.7. In the absence of strong chelating agents, after reduction of hexavalent chromium wastes, and after neutralization using calcium oxide (or hydroxide) the following limitations shall apply:

SUBPART B—PRECIOUS METALS FACILITIES DISCHARGING 38,000 LITERS OR MORE PER DAY PSES LIMITATIONS (MG/L)

| Pollutant or pollutant property | Maximum for any 1 day | Average of daily values for 4 consecutive monitoring days shall not exceed |
|---------------------------------|-----------------------|--|
| CN, T | 1.9 | 1.0 |
| Pb | .6 | .4 |
| Cd | 1.2 | .7 |
| TSS | 20.0 | 13.4 |
| pH | ¹ | ¹ |

¹ Within the range 7.5 to 10.0.

(f) In addition to paragraphs (a) and (b) the following limitation shall apply for plants discharging less than 38,000 l (10,000 gal) per calendar day of electroplating process wastewater:

| Pollutant or pollutant property | Maximum for any 1 day |
|---------------------------------|-----------------------------|
| | Milligrams per liter (mg/l) |
| TTO | 4.57 |

(g) In addition to paragraphs (a), (c), (d), and (e) the following limitation shall apply for plants discharging 38,000 l (10,000 gal) or more per calendar day of electroplating process wastewater:

| Pollutant or pollutant property | Maximum for any 1 day |
|---------------------------------|-----------------------------|
| | Milligrams per liter (mg/l) |
| TTO | 2.13 |

(h) In addition to paragraphs (a), (b), (c), (d), (e), (f), and (g) the following shall apply: An existing source submitting a certification in lieu of monitoring pursuant to §413.03 of this regulation must implement the toxic organic management plan approved by the control authority.

(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 32484, July 15, 1983; 48 FR 43681, Sept. 26, 1983]

Subpart C—Electroplating of Speciality Metals Subcategory [Reserved]