Environmental Protection Agency

SUBPART D-NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of precious metals and base metal cleaned prior to bonding	
Cadmium	0.400	0.174
Copper	2.21	1.16
Cyanide	0.337	0.139
Silver	0.476	0.197
Oil and grease	23.2	13.9
TSS	47.6	22.6
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(s) Tumbling or burnishing wastewater.

SUBPART D-NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	off-pounds)	nds per million of precious bled or bur-
Cadmium	0.412	0.182
Copper	2.30	1.21
Cyanide	0.351	0.145
Silver	0.496	0.206
Oil and grease	24.2	14.5
TSS	49.6	23.6
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(t) Sawing or grinding spent neat oils—Subpart D—NSPS. There shall be no discharge of process wastewater pollutants.

(u) Sawing or grinding spent emulsions.

SUBPART D-NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of precious metals sawed or ground with emulsions	
Cadmium	0.032	0.014
Copper	0.178	0.094
Cyanide	0.027	0.011
Silver	0.038	0.016
Oil and grease	1.87	1.12
TSS	3.83	1.82
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(v) *Degreasing spent solvents—Subpart D—NSPS.* There shall be no discharge of process wastewater pollutants.

[50 FR 34270, Aug. 23, 1985; 51 FR 2886, Jan. 22, 1986]

§ 471.44 Pretreatment standards for existing sources (PSES).

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 by August 23, 1985 achieve the following pretreatment standards for existing sources (PSES). The mass of wastewater pollutants in precious metals forming process wastewater introduced into a POTW shall not exceed the following values:

(a) Rolling spent neat oils—Subpart D—PSES. There shall be no discharge of process wastewater pollutants.

(b) Rolling spent emulsions.

SUBPART D-PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of precious metals rolled with emul- sions	
Cadmium	0.026	0.012
Copper	0.147	0.077
Cyanide	0.023	0.010
Silver	0.032	0.013

(c) *Drawing spent neat oils—Subpart D—PSES.* There shall be no discharge of process wastewater pollutants.

(d) Drawing spent emulsions.

SUBPART D-PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per millic off-pounds) of preciou metals drawn with emu sions	
Cadmium	0.016	0.007
Copper	0.091	0.048
Cyanide	0.014	0.006
Silver	0.020	0.008

(e) Drawing spent soap solutions.

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SUBPART D-PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	off-pounds)	nds per million of precious n with soap so-
Cadmium Copper Cyanide Silver	0.001 0.006 0.0009 0.002	0.0005 0.003 0.0004 0.0006

(f) Metal powder production atomization wastewater.

SUBPART D-PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of precious metals powder wet atom ized	
Cadmium Copper Cyanide Silver	2.27 12.7 1.94 2.74	1.00 6.68 0.802 1.14

(g) Heat treatment contact cooling water.

SUBPART D-PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of precious metals heat treated	
Cadmium Copper Cyanide Silver	0.142 0.793 0.121 0.171	0.063 0.417 0.050 0.071

(h) Semi-continuous and continuous casting contact cooling water.

SUBPART D-PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per millior off-pounds) of precious metals cast by the semi continuous or continuous method	
Cadmium	0.350 1.96 0.299 0.423	0.155 1.03 0.124 0.175

- (i) Stationary casting contact cooling water—Subpart D—PSES. There shall be no discharge of process wastewater pollutants.
- (j) Direct chill casting contact cooling water.

SUBPART D-PSES

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/off-kg (pounds per millio off-pounds) of precion metals cast by the dire chill method	
Cadmium	0.367 2.05 0.313 0.443	0.162 1.08 0.130 0.184

(k) Shot casting contact cooling water.

SUBPART D-PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per millio off-pounds) of preciou metals shot cast	
Cadmium	0.125 0.698 0.107 0.151	0.055 0.367 0.044 0.063

- (l) Wet air pollution control scrubber blowdown—Subpart D—PSES. There shall be no discharge of process wastewater pollutants.
- (m) Pressure bonding contact cooling water.

SUBPART D-PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per millio off-pounds) of preciou metal and base metal pres sure bonded	
Cadmium	0.029	0.013
Copper	0.159	0.084
Cyanide	0.024	0.010
Silver	0.034	0.014

(n) Surface treatment spent baths.

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SUBPART D-PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of precious metals surface treated	
Cadmium	0.033	0.015
Copper	0.183	0.097
Cyanide	0.028	0.012
Silver	0.040	0.017

(o) Surface treatment rinse.

SUBPART D-PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of precious metals surface treated	
Cadmium	0.210	0.093
Copper	1.17	0.616
Cyanide	0.179	0.074
Silver	0.253	0.105

(p) Alkaline cleaning spent baths.

SUBPART D-PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of precious metals alkaline cleaned	
Cadmium	0.021 0.114 0.018 0.025	0.009 0.060 0.007 0.010

(q) Alkaline cleaning rinse.

SUBPART D-PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of precious metals alkaline cleaned	
Cadmium	0.381	0.168
Copper	2.13	1.12
Cyanide	0.325	0.135
Silver	0.459	0.191

(r) Alkaline cleaning prebonding wastewater.

SUBPART D-PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per millior off-pounds) of precious metals and base meta cleaned prior to bonding	
Cadmium	0.400 2.210 0.337 0.476	0.174 1.16 0.139 0.197

(s) Tumbling or burnishing wastewater.

SUBPART D-PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of precious metals tumbled or bur- nished	
Cadmium Copper Cyanide Silver	0.412 2.300 0.351 0.496	0.182 1.21 0.145 0.206

(t) Sawing or grinding spent neat oils—Subpart D—PSES. There shall be no discharge of process wastewater pollutants.

(u) Sawing or grinding spent emulsions.

SUBPART D-PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per millior off-pounds) of precious metals sawed or ground with emulsions	
Cadmium Copper Cyanide Silver	0.032 0.178 0.027 0.038	0.014 0.094 0.011 0.016

(v) Degreasing spent solvents—Subpart D—PSNS. There shall be no discharge of process wastewater pollutants.

[50 FR 34270, Aug. 23, 1985; 51 FR 2886, Jan. 22, 1986]

§471.45 Pretreatment standards for new sources (PSNS).

Except as provided in 40 CFR 403.7, any new 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