Environmental Protection Agency

SUBPART C-PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt formed	
Chromium	0.091 0.136 14.7	0.037 0.091 6.50

[50 FR 34270, Aug. 23, 1985; 51 FR 2886, Jan. 22, 1986, as amended at 54 FR 11350, Mar. 17, 1989]

§ 471.36 Effluent limitations representing the degree of effluent reduction attainable by the application of the best conventional pollutant control technology (BCT). [Reserved]

Subpart D—Precious Metals Forming Subcategory

§ 471.40 Applicability; description of the precious metals forming subcategory.

This subpart applies to discharges of pollutants to waters of the United States, and introductions of pollutants into publicly owned treatment works from the process operations of the precious metals forming subcategory.

§ 471.41 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT).

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations for the process operations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

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

SUBPART D-BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per millio off-pounds) of preciou metals rolled with emu sions	
Chromium	0.026	0.012
Copper	0.147	0.077
Cyanide	0.023	0.010
Silver	0.032	0.013
Oil and grease	1.54	0.925
TSS	3.16	1.51
pH	(1)	(1)

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

- (c) Drawing spent neat oils—Subpart D—BPT. There shall be no discharge of process wastewater pollutants.
 - (d) Drawing spent emulsions.

SUBPART D-BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		nds per million of precious vn with emul-
Cadmium Copper Cyanide Silver Oil and grease TSS pH	0.016 0.091 0.014 0.020 0.950 1.95	0.007 0.048 0.006 0.008 0.570 0.926 (1)

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

(e) Drawing spent soap solutions.

SUBPART D-BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly aver- age
		nds per million of precious n with soap so-
Cadmium Copper Cyanide Silver Oil and grease TSS pH	0.001 0.006 0.0009 0.001 0.063 0.128	0.0005 0.003 0.0004 0.0006 0.038 0.061

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

(f) Metal powder production wet atomization wastewater.

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SUBPART D-BPT

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	2.27	1.00
Copper	12.7	6.70
Cyanide	1.94	0.802
Silver	2.70	1.14
Oil and grease	134	80.2
TSS	274	130
pH	(1)	(1)

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

(g) Heat treatment contact cooling water.

SUBPART D-BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of extruded precious metals heat treat- ed	
Cadmium	1.42	0.626
Copper	7.93	4.17
Cyanide	1.21	0.501
Silver	1.71	0.709
Oil and grease	83.4	50.1
TSS	171	81.3
pH	(1)	(¹)

 $^{^{\}mbox{\scriptsize 1}}$ Within the range of 7.5 to 10.0 at all times.

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

SUBPART D-BPT

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	3.50	1.55
Copper	19.6	10.3
Cyanide	2.99	1.24
Silver	4.23	1.75
Oil and grease	206	124
TSS	423	209
pH	(1)	(1)

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

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

SUBPART D-BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of precious metals cast by the direct chill method	
Cadmium	3.67	1.62
Copper	20.5	10.8
Cyanide	3.13	1.30
Silver	4.43	1.84
Oil and grease	216	130
TSS	443	211
pH	(1)	(1)

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

(k) Shot casting contact cooling water.

SUBPART D-BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		nds per million of precious cast
Cadmium	1.25	0.551
Copper	6.98	3.67
Cyanide	1.07	0.441
Silver	1.51	0.624
Oil and grease	73.4	44.1
TSS	151	71.6
pH	(1)	(1)

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

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

SUBPART D-BPT

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 pressure bonded	
Cadmium	0.029	0.013
Copper	0.159	0.084
Cyanide	0.024	0.010
Silver	0.034	0.014
Oil and grease	1.67	1.00
TSS	3.43	1.63
pH	(1)	(1)

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

(n) Surface treatment spent baths.

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SUBPART D-BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per millior 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
Oil and grease	1.93	1.16
TSS	3.95	1.88
pH	(1)	(1)

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

(o) Surface treatment rinse.

SUBPART D-BPT

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 Copper Cyanide Silver Oil and grease TSS pH	2.10 11.7 1.79 2.53 123 253 (1)	0.924 5.16 0.739 1.05 73.9 120

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

(p) Alkaline cleaning spent baths.

SUBPART D-BPT

Pollutant or pollutant property	Maximum for any 1 day Maximum for monthl average	
		inds per mil- nds) of pre- als alkaline
Cadmium	0.021	0.009
Copper	0.114	0.060
Cyanide	0.018	0.007
Silver	0.025	0.010
Oil and grease	1.20	0.720
TSS	2.46	1.170
pH	(1)	(1)

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

(q) Alkaline cleaning rinse.

SUBPART D-BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per millio off-pounds) of preciou metals alkaline cleaned	
Cadmium	3.81	1.68
Copper	21.3	11.2
Cyanide	3.25	1.35
Silver	4.59	1.91
Oil and grease	224	135
TSS	459	219
pH	(1)	(1)

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

(r) Alkaline cleaning prebonding wastewater.

SUBPART D-BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per millio off-pounds) of preciou metals and base meta cleaned prior to bonding	
Cadmium	3.95	1.74
Copper	22.1	11.6
Cyanide	3.37	1.39
Silver	4.76	1.97
Oil and grease	232	139
TSS	476	226
pH	(1)	(1)

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

(s) Tumbling or burnishing wastewater.

SUBPART D-BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	off-pounds)	nds per million of precious bled or bur-
Cadmium	4.12	1.82
Copper	23.0	12.1
Cyanide	3.51	1.45
Silver	4.96	2.06
Oil and grease	242	145
TSS	496	236
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—BPT. There shall be no discharge of process wastewater pollutants.
 - (u) Sawing or grinding spent emulsions.

SUBPART D-BPT

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	0.039	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—BPT. There shall be no discharge of process wastewater pollutants.

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

§ 471.42 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable (BAT).

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable (BAT):

- (a) Rolling spent neat oils—Subpart D—BAT. There shall be no discharge of wastewater pollutants.
 - (b) Rolling spent emulsions.

SUBPART D-BAT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (po lion off-po cious meta emulsions	
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—BAT. There shall be no discharge of process wastewater pollutants.
 - (d) Drawing spent emulsions.

SUBPART D-BAT

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

(e) Drawing spent soap solutions.

SUBPART D-BAT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of precious metals drawn with soap so lutions	
Cadmium	0.001 0.006 0.0009 0.002	0.0005 0.003 0.0004 0.0006

(f) Metal powder production wet atomization wastewater.

SUBPART D-BAT

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

(g) Heat treatment contact cooling water.

SUBPART D-BAT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per mil- lion off-pounds) of pre- cious metals heat treated	
Cadmium	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.