

§ 471.46

40 CFR Ch. I (7-1-04 Edition)

SUBPART D—PSNS

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 .....	0.412	0.182
Copper .....	2.30	1.21
Cyanide .....	0.351	0.145
Silver .....	0.496	0.206

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

(u) *Sawing or grinding spent emulsions.*

SUBPART D—PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of pre-cious 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

(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]

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

**Subpart E—Refractory Metals Forming Subcategory**

**§ 471.50 Applicability; description of the refractory 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 refractory metals forming subcategory.

**§ 471.51 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 and graphite based lubricants—Subpart E—BPT.* There shall be no discharge of process wastewater pollutants.

(b) *Rolling spent emulsions.*

SUBPART E—BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of refractory metals rolled with emulsions	
Copper .....	0.815	0.429
Nickel .....	0.824	0.545
Fluoride .....	25.5	11.3
Molybdenum .....	2.84	1.47
Oil and grease .....	8.58	5.15
TSS .....	17.6	8.37
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(c) *Drawing spent lubricants—Subpart E—BPT.* There shall be no discharge of process wastewater pollutants.

(d) *Extrusion spent lubricants—Subpart E—BPT.* There shall be no discharge of process wastewater pollutants.

(e) *Extrusion press hydraulic fluid leakage.*

SUBPART E—BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of refractory metals extruded	
Copper .....	2.26	1.19
Nickel .....	2.29	1.51
Fluoride .....	70.8	31.4
Molybdenum .....	7.87	4.07
Oil and grease .....	23.8	14.3
TSS .....	48.8	23.2
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

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(f) *Forging spent lubricants—Subpart E—BPT.* There shall be no discharge of process wastewater pollutants.

(g) *Forging contact cooling water.*

**SUBPART E—BPT**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of forged refractory metals cooled with water	
Copper .....	0.614	0.323
Nickel .....	0.620	0.410
Fluoride .....	19.2	8.53
Molybdenum .....	2.14	1.11
Oil and grease .....	6.46	3.88
TSS .....	13.3	6.30
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(h) *Equipment cleaning wastewater.*

**SUBPART E—BPT**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of refractory metals formed	
Copper .....	2.59	1.36
Nickel .....	2.61	1.73
Fluoride .....	80.9	35.9
Molybdenum .....	8.99	4.65
Oil and grease .....	27.2	16.3
TSS .....	55.8	26.5
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(i) *Metal powder production wastewater.*

**SUBPART E—BPT**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of refractory metals powder produced	
Copper .....	0.534	0.281
Nickel .....	0.540	0.357
Fluoride .....	16.70	7.42
Molybdenum .....	1.86	0.961
Oil and grease .....	5.62	3.37
TSS .....	11.5	5.48
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(j) *Metal powder production floor wash wastewater—Subpart E—BPT.* There shall be no discharge of process wastewater pollutants.

(k) *Metal powder pressing spent lubricants—Subpart E—BPT.* There shall be no discharge of process wastewater pollutants.

(l) *Surface treatment spent baths.*

**SUBPART E—BPT**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of refractory metals surface treated	
Copper .....	0.739	0.389
Nickel .....	0.747	0.494
Fluoride .....	23.2	10.3
Molybdenum .....	2.57	1.33
Oil and grease .....	7.78	4.68
TSS .....	16.0	7.59
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(m) *Surface treatment rinse.*

**SUBPART E—BPT**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of refractory metals surface treated	
Copper .....	230	121
Nickel .....	232	154
Fluoride .....	7,200	3,200
Molybdenum .....	800	414
Oil and grease .....	2,420	1,450
TSS .....	4,960	2,360
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(n) *Alkaline cleaning spent baths.*

**SUBPART E—BPT**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of refractory metals alkaline cleaned	
Copper .....	0.635	0.334
Nickel .....	0.641	0.424
Fluoride .....	19.9	8.82
Molybdenum .....	2.21	1.14
Oil and grease .....	6.68	4.01
TSS .....	13.7	6.51
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(o) *Alkaline cleaning rinse.*

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of refractory metals alkaline cleaned	
Copper .....	1,550	816
Nickel .....	1,570	1,040
Fluoride .....	48,600	21,600
Molybdenum .....	5,400	2,790
Oil and grease .....	16,300	9,790
TSS .....	33,500	15,900
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(p) *Molten salt rinse.*

SUBPART E—BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of refractory metals treated with molten salt	
Copper .....	12.1	6.33
Nickel .....	12.2	8.04
Fluoride .....	377	167
Molybdenum .....	41.9	21.7
Oil and grease .....	127	76.0
TSS .....	260	124
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(q) *Tumbling or burnishing wastewater.*

SUBPART E—BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of refractory metals tumbled or burnished	
Copper .....	23.8	12.5
Nickel .....	24.0	15.9
Fluoride .....	744	330
Molybdenum .....	82.7	42.8
Oil and grease .....	250	150
TSS .....	513	244
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

Within the range of 7.5 to 10.0 at all times.

(r) *Sawing or grinding spent neat oils—Subpart E—BPT.* There shall be no discharge of process wastewater pollutants.

(s) *Sawing or grinding spent emulsions.*

SUBPART E—BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of refractory metals sawed or ground with emulsions	
Copper .....	0.565	0.297
Nickel .....	0.570	0.377
Fluoride .....	17.7	7.84
Molybdenum .....	1.97	1.02
Oil and grease .....	5.94	3.57
TSS .....	12.2	5.79
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(t) *Sawing or grinding contact cooling water.*

SUBPART E—BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of refractory metals sawed or ground with contact cooling water	
Copper .....	46.2	24.3
Nickel .....	46.7	30.9
Fluoride .....	1450	642
Molybdenum .....	161	83.1
Oil and grease .....	486	292
TSS .....	997	474
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(u) *Sawing or grinding rinse.*

SUBPART E—BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of sawed or ground refractory metals rinsed	
Copper .....	0.257	0.135
Nickel .....	0.259	0.172
Fluoride .....	8.03	3.57
Molybdenum .....	0.893	0.462
Oil and grease .....	2.70	1.62
TSS .....	5.54	2.63
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(v) *Wet air pollution control scrubber blowdown.*

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**SUBPART E—BPT**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of refractory metals sawed or ground, surface coated or surface treated	
Copper .....	1.50	0.787
Nickel .....	1.51	1.00
Fluoride .....	46.8	20.8
Molybdenum .....	5.20	2.69
Oil and grease .....	15.8	9.45
TSS .....	32.3	15.4
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(w) *Miscellaneous wastewater sources.*

**SUBPART E—BPT**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of refractory metals formed	
Copper .....	0.656	0.345
Nickel .....	0.663	0.438
Fluoride .....	20.6	9.11
Molybdenum .....	2.28	1.18
Oil and grease .....	6.9	4.14
TSS .....	14.2	6.73
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(x) *Dye penetrant testing wastewater.*

**SUBPART E—BPT**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of refractory metals tested	
Copper .....	0.150	0.078
Nickel .....	0.150	0.099
Fluoride .....	4.60	2.00
Molybdenum .....	0.513	0.266
Oil and grease .....	1.60	0.930
TSS .....	3.20	1.50
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(y) *Degreasing spent solvents—Subpart E—BPT.* There shall be no discharge of process wastewater pollutants.

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

**§ 471.52 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 and graphite based lubricants—Subpart E—BAT.* There shall be no discharge of process wastewater pollutants.

(b) *Rolling spent emulsions.*

**SUBPART E—BAT**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of refractory metals rolled with emulsions	
Copper .....	0.549	0.262
Nickel .....	0.236	0.157
Fluoride .....	25.5	11.3
Molybdenum .....	2.16	0.957

(c) *Drawing spent lubricants—Subpart E—BAT.* There shall be no discharge of process wastewater pollutants.

(d) *Extrusion spent lubricants—Subpart E—BAT.* There shall be no discharge of process wastewater pollutants.

(e) *Extrusion press hydraulic fluid leakage.*

**SUBPART E—BAT**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of refractory metals extruded	
Copper .....	1.5	0.730
Nickel .....	0.650	0.440
Fluoride .....	71.000	31.0
Molybdenum .....	5.99	2.66

(f) *Forging spent lubricants—Subpart E—BAT.* There shall be no discharge of process wastewater pollutants.

(g) *Forging contact cooling water.*