

**Environmental Protection Agency**

**§ 471.54**

**SUBPART E—NSPS**

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 .....	0.018	0.009
Nickel .....	0.008	0.005
Fluoride .....	0.803	0.357
Molybdenum .....	0.068	0.030
Oil and grease .....	0.135	0.135
TSS .....	0.203	0.162
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.*

**SUBPART E—NSPS**

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, ground, surface coated or surface treated	
Copper .....	1.01	0.480
Nickel .....	0.433	0.291
Fluoride .....	46.8	20.8
Molybdenum .....	3.96	1.76
Oil and grease .....	7.87	7.87
TSS .....	11.8	9.45
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—NSPS**

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 .....	0.442	0.211
Nickel .....	0.190	0.128
Fluoride .....	20.6	9.11
Molybdenum .....	1.74	0.770
Oil and grease .....	3.45	3.45
TSS .....	5.18	4.14
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—NSPS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of refractory metals product tested	
Copper .....	0.100	0.048
Nickel .....	0.043	0.029
Fluoride .....	4.62	2.05
Molybdenum .....	0.391	0.173
Oil and grease .....	0.776	0.776
TSS .....	1.17	0.931
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—NSPS.* There shall be no discharge of process wastewater pollutants.

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

**§ 471.54 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, 1988 achieve the following pretreatment standards for existing sources (PSES). The mass of wastewater pollutants in refractory metals forming process wastewater introduced into a POTW shall not exceed the following values:

(a) *Rolling spent neat oils and graphite based lubricants—subpart E—PSES.* There shall be no discharge of process wastewater pollutants.

(b) *Rolling spent emulsions.*

**SUBPART E—PSES**

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	11.4
Molybdenum .....	2.84	1.47

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

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

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(e) *Extrusion press hydraulic fluid leakage.*

SUBPART E—PSES

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

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

(g) *Forging contact cooling water.*

SUBPART E—PSES

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 .....	0.062	0.033
Nickel .....	0.062	0.041
Fluoride .....	1.92	0.853
Molybdenum .....	0.214	0.111

(h) *Equipment cleaning wastewater.*

SUBPART E—PSES

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 .....	0.259	0.136
Nickel .....	0.261	0.173
Fluoride .....	8.09	3.59
Molybdenum .....	0.899	0.465

(i) *Metal powder production wastewater.*

SUBPART E—PSES

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 .....	16.7	7.42
Molybdenum .....	1.86	0.961

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

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

(l) *Surface treatment spent baths.*

SUBPART E—PSES

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

(m) *Surface treatment rinse.*

SUBPART E—PSES

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 .....	23.0	12.1
Nickel .....	23.3	15.4
Fluoride .....	720	320
Molybdenum .....	80.0	41.4

(n) *Alkaline cleaning spent baths.*

SUBPART E—PSES

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 .....	0.642	0.424
Fluoride .....	19.9	8.82
Molybdenum .....	2.21	1.14

(o) *Alkaline cleaning rinse.*

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**SUBPART E—PSES**

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 .....	15.5	8.16
Nickel .....	15.7	10.4
Fluoride .....	486.	216.0
Molybdenum .....	54.0	27.9

(p) *Molten salt rinse.*

**SUBPART E—PSES**

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 .....	1.20	0.633
Nickel .....	1.22	0.804
Fluoride .....	37.7	16.7
Molybdenum .....	4.19	2.17

(q) *Tumbling or burnishing wastewater.*

**SUBPART E—PSES**

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 .....	2.38	1.25
Nickel .....	2.40	1.59
Fluoride .....	74.4	33.0
Molybdenum .....	8.27	4.28

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

(s) *Sawing or grinding spent emulsions.*

**SUBPART E—PSES**

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

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

**SUBPART E—PSES**

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 .....	4.62	2.43
Nickel .....	4.67	3.09
Fluoride .....	145.	64.2
Molybdenum .....	16.1	8.31

(u) *Sawing or grinding rinse.*

**SUBPART E—PSES**

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 .....	0.026	0.014
Nickel .....	0.026	0.017
Fluoride .....	0.804	0.357
Molybdenum .....	0.089	0.046

(v) *Wet air pollution control blowdown.*

**SUBPART E—PSES**

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, surface coated or surface treated	
Copper .....	1.50	0.787
Nickel .....	1.51	1.00
Fluoride .....	46.9	20.8
Molybdenum .....	5.20	2.69

(w) *Miscellaneous wastewater sources.*

**SUBPART E—PSES**

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

(x) *Dye penetrant testing wastewater.*

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SUBPART E—PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of refractory metals product tested	
Copper .....	0.148	0.078
Nickel .....	0.149	0.099
Fluoride .....	4.62	2.05
Molybdenum .....	0.513	0.266

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

[50 FR 34270, Aug. 23, 1985; 51 FR 2887, Jan. 22, 1986]

§ 471.55 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 standards for new sources (PSNS). The mass of wastewater pollutants in the refractory metals forming process wastewater shall not exceed the values set forth below:

(a) *Rolling spent neat oils and graphite based lubricants—subpart E—PSNS.* There shall be no discharge of process wastewater pollutants.

(b) *Rolling spent emulsions.*

SUBPART E—PSNS

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	0.159
Fluoride .....	25.5	11.3
Molybdenum .....	2.16	0.957

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

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

(e) *Extrusion press hydraulic fluid leakage.*

SUBPART E—PSNS

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 .....	1.53	0.726
Nickel .....	0.655	0.441
Fluoride .....	70.8	31.4
Molybdenum .....	5.99	2.66

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

(g) *Forging contact cooling water.*

SUBPART E—PSNS

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 .....	0.041	0.320
Nickel .....	0.018	0.021
Fluoride .....	1.92	0.853
Molybdenum .....	0.163	0.072

(h) *Equipment cleaning wastewater.*

SUBPART E—PSNS

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 .....	0.174	0.083
Nickel .....	0.075	0.051
Fluoride .....	8.09	3.59
Molybdenum .....	0.684	0.303

(i) *Metal powder production wastewater.*

SUBPART E—PSNS

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 .....	0.360	0.172
Nickel .....	0.155	0.104
Fluoride .....	16.7	7.42
Molybdenum .....	1.42	0.627

(j) *Metal powder production floor wash wastewater—subpart E—PSNS.* There