

§ 471.84

40 CFR Ch. I (7-1-12 Edition)

SUBPART H—NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zinc alkaline cleaned	
Chromium .....	0.002	0.0006
Copper .....	0.005	0.002
Cyanide .....	0.0007	0.0003
Zinc .....	0.004	0.002
Oil and grease .....	0.036	0.036
TSS .....	0.054	0.043
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(k) *Alkaline cleaning rinse.*

SUBPART H—NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zinc alkaline cleaned	
Chromium .....	0.626	0.259
Copper .....	2.17	1.03
Cyanide .....	0.338	0.135
Zinc .....	1.73	0.710
Oil and grease .....	16.9	16.9
TSS .....	25.4	20.3
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(l) *Sawing or grinding spent emulsions.*

SUBPART H—NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zinc sawed or ground with emulsions	
Chromium .....	0.009	0.004
Copper .....	0.031	0.015
Cyanide .....	0.005	0.002
Zinc .....	0.025	0.010
Oil and grease .....	0.235	0.235
TSS .....	0.357	0.286
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(m) *Electrocoating rinse.*

SUBPART H—NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zinc electrocoated	
Chromium .....	0.085	0.035
Copper .....	0.293	0.140
Cyanide .....	0.046	0.019
Zinc .....	0.234	0.096
Oil and grease .....	2.29	2.29
TSS .....	3.44	2.75
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(n) *Degreasing spent solvents—subpart H—NSPS.* There shall be no discharge of process wastewater pollutants.

[50 FR 34270, Aug. 23, 1985; 51 FR 2888, Jan. 22, 1986]

§ 471.84 Pretreatment standards for existing sources (PSES). [Reserved]

§ 471.85 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 the wastewater introduced into a POTW shall not exceed the following values:

(a) *Rolling spent neat oils—subpart H—PSNS.* There shall be no discharge of process wastewater pollutants.

(b) *Rolling spent emulsions.*

SUBPART H—PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zinc rolled with emulsions	
Chromium .....	0.0005	0.0002
Copper .....	0.002	0.0009
Cyanide .....	0.0003	0.0001
Zinc .....	0.002	0.0006

(c) *Rolling contact cooling water.*

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**SUBPART H—PSNS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zinc rolled with contact cooling water	
Chromium .....	0.020	0.008
Copper .....	0.069	0.033
Cyanide .....	0.011	0.004
Zinc .....	0.055	0.023

(d) *Drawing spent emulsions.*

**SUBPART H—PSNS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zinc drawn with emulsions	
Chromium .....	0.002	0.0009
Copper .....	0.008	0.004
Cyanide .....	0.001	0.0005
Zinc .....	0.006	0.003

(e) *Direct chill casting contact cooling water.*

**SUBPART H—PSNS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zinc cast by the direct chill method	
Chromium .....	0.019	0.008
Copper .....	0.065	0.031
Cyanide .....	0.010	0.004
Zinc .....	0.052	0.021

(f) *Stationary casting contact cooling water—subpart H—PSNS.* There shall be no discharge of process wastewater pollutants.

(g) *Heat treatment contact cooling water.*

**SUBPART H—PSNS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zinc heat treated	
Chromium .....	0.029	0.012
Copper .....	0.098	0.047
Cyanide .....	0.016	0.006
Zinc .....	0.078	0.032

(h) *Surface treatment spent baths.*

**SUBPART H—PSNS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zinc surface treated	
Chromium .....	0.033	0.014
Copper .....	0.114	0.054
Cyanide .....	0.018	0.007
Zinc .....	0.091	0.038

(i) *Surface treatment rinse.*

**SUBPART H—PSNS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zinc surface treated	
Chromium .....	0.133	0.054
Copper .....	0.459	0.219
Cyanide .....	0.072	0.029
Zinc .....	0.365	0.151

(j) *Alkaline cleaning spent baths.*

**SUBPART H—PSNS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zinc alkaline cleaned	
Chromium .....	0.002	0.0006
Copper .....	0.005	0.002
Cyanide .....	0.0007	0.0003
Zinc .....	0.004	0.002

(k) *Alkaline cleaning rinse.*

**SUBPART H—PSNS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zinc alkaline cleaned	
Chromium .....	0.626	0.254
Copper .....	2.17	1.03
Cyanide .....	0.338	0.134
Zinc .....	1.73	0.710

(l) *Sawing or grinding spent emulsions.*

SUBPART H—PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zinc sawed or ground with emulsions	
Chromium .....	0.009	0.004
Copper .....	0.031	0.015
Cyanide .....	0.005	0.002
Zinc .....	0.025	0.010

(m) *Electrocoating rinse.*

SUBPART H—PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zinc electrocoated	
Chromium .....	0.085	0.035
Copper .....	0.293	0.140
Cyanide .....	0.046	0.019
Zinc .....	0.234	0.096

(n) *Decreasing spent solvents—subpart H—PSNS.* There shall be no discharge of process wastewater pollutants.

[50 FR 34270, Aug. 23, 1985; 51 FR 2888, Jan. 22, 1986]

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

**Subpart I—Zirconium-Hafnium Forming Subcategory**

**§ 471.90 Applicability; description of the zirconium-hafnium 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 zirconium-hafnium forming subcategory.

**§ 471.91 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 I—BPT.* There shall be no discharge of process wastewater pollutants.

(b) *Drawing spent lubricants—subpart I—BPT.* There shall be no discharge of process wastewater pollutants.

(c) *Extrusion spend emulsions—subpart I—BPT.* There shall be no discharge of process wastewater pollutants.

(d) *Extrusion press hydraulic fluid leakage.*

SUBPART I—BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zirconium-hafnium extruded	
Chromium .....	0.104	0.043
Cyanide .....	0.069	0.029
Nickel .....	0.455	0.301
Ammonia .....	31.6	13.9
Fluoride .....	14.1	6.26
Oil and grease .....	4.74	2.85
TSS .....	9.72	4.62
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(e) *Swaging spent neat oils—subpart I—BPT.* There shall be no discharge of process wastewater pollutants.

(f) *Heat treatment contact cooling water.*

SUBPART I—BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zirconium-hafnium heat treated	
Chromium .....	0.151	0.062
Cyanide .....	0.100	0.041
Nickel .....	0.659	0.436
Ammonia .....	45.7	20.1
Fluoride .....	20.4	9.06
Oil and grease .....	6.86	4.12
TSS .....	14.1	6.69
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(g) *Tube Reducing Spent Lubricant—subpart I—BPT.*