

**§ 471.94**

- (o) *Degreasing rinse—subpart I—NSPS.* There shall be no discharge of process wastewater pollutants  
 (p) *Molten salt rinse.*

**SUBPART I—NSPS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zirconium-hafnium treated with molten salt	
Chromium .....	0.333	0.136
Cyanide .....	0.220	0.091
Nickel .....	1.45	0.960
Ammonia .....	101	44.3
Fluoride .....	45.0	20.0
Oil and grease .....	15.1	9.07
TSS .....	31.0	14.8
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

- (q) *Sawing or grinding contact cooling water.*

**SUBPART I—NSPS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zirconium-hafnium sawed or ground with contact cooling water	
Chromium .....	0.142	0.058
Cyanide .....	0.093	0.039
Nickel .....	0.617	0.408
Ammonia .....	42.8	18.8
Fluoride .....	19.1	8.48
Oil and grease .....	6.42	3.85
TSS .....	13.2	6.26
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

- (r) *Sawing or grinding rinse.*

**SUBPART I—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 zirconium-hafnium rinsed	
Chromium .....	0.079	0.033
Cyanide .....	0.052	0.022
Nickel .....	0.346	0.229
Ammonia .....	24.0	10.6
Fluoride .....	10.7	4.75
Oil and Grease .....	3.60	2.16
TSS .....	7.38	3.51
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

**40 CFR Ch. I (7–1–13 Edition)**

- (s) *Sawing or grinding spent neat oils—subpart I—NSPS.* There shall be no discharge or process wastewater pollutants.

- (t) *Inspection and testing wastewater.*

**SUBPART I—NSPS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zirconium-hafnium tested	
Chromium .....	0.007	0.003
Cyanide .....	0.005	0.002
Nickel .....	0.030	0.020
Ammonia .....	2.06	0.903
Fluoride .....	0.917	0.407
Oil and grease .....	0.308	0.185
TSS .....	0.632	0.301
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

[50 FR 34270, Aug. 23, 1985; 51 FR 2888, Jan. 22, 1986, as amended at 54 FR 11351, Mar. 17, 1989]

**§ 471.94 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 zirconium-hafnium forming process wastewater introduced into a POTW shall not exceed the following values:

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

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

- (c) *Extrusion spent emulsion—subpart I—PSES.* There shall be no discharge of process wastewater pollutants.

- (d) *Extrusion press hydraulic fluid leakage.*

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SUBPART I—PSES

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

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

(f) *Heat treatment contact cooling water.*

SUBPART I—PSES

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 .....	0.015	0.006
Cyanide .....	0.010	0.004
Nickel .....	0.066	0.044
Ammonia .....	4.57	2.01
Fluoride .....	2.04	0.906

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

(1) There shall be no discharge of process wastewater pollutants except as provided under paragraph (g)(2) of this section.

(2) Process wastewater pollutants may be discharged, with no allowance for any pollutants discharged, provided the facility owner or operator demonstrates, on the basis of analytical methods set forth in or approved pursuant to 40 CFR part 136, that the concentrations of nitrosamine compounds in the wastewater discharged from the tube reducing process do not exceed 0.050 mg/l of N-nitrosodimethylamine, 0.020 mg/l of N-nitrosodiphenylamine, and 0.020 mg/l of N-nitrosodi-n-propylamine.

(3) The demonstration required under paragraph (g)(2) of this section shall be made once per month until the demonstration has been made for all three nitrosamine compounds for six consecutive months, after which time the demonstration may be made once per quarter. If a sample is found to contain

any of the foregoing nitrosamine compounds at concentrations greater than those specified in subparagraph (g)(2) of this section, the actions described in paragraph (g)(4) of this section shall be taken, and the demonstration required under subparagraph (g)(2) of this section shall be made once per month until it has been made for all three nitrosamine compounds for six consecutive months.

(4) If sampling results show that any of the foregoing nitrosamine compounds is present in the process wastewater at concentrations greater than those specified in subparagraph (g)(2) of this section, the facility owner or operator shall ensure that, within thirty days of receiving written notification of the sampling results, there is no further discharge of tube reducing spent lubricant wastewater until the owner or operator:

(i) Performs a subsequent analysis which demonstrates that the concentrations of the foregoing nitrosamine compounds do not exceed the levels specified in paragraph (g)(2) of this section; or

(ii) Substitutes a new tube reducing lubricant and thereafter complies with the requirements of paragraph (g)(3) of this section; or

(iii) Determines the source of the pollutant whose concentration exceeded the level specified in paragraph (g)(2) of this section and demonstrates to the satisfaction of the POTW control authority that such source has been eliminated.

(5) The concentration limits specified in paragraph (g)(2) of this section apply at the point of discharge from the tube reducing process. However, sampling after the tube reducing wastewater has been commingled with other wastewaters is permitted if:

(i) Any dilution caused by the other wastewaters is taken into account in determining the appropriate (*i.e.*, lower) allowable discharge concentration; and

(ii) An analytical method of sufficient sensitivity is used to measure the levels of each of the foregoing nitrosamine compounds in the wastewaters being sampled.

(h) *Surface treatment spent baths.*

SUBPART I—PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zirconium-hafnium surface treated	
Chromium .....	0.150	0.061
Cyanide .....	0.099	0.041
Nickel .....	0.653	0.432
Ammonia .....	45.3	20.0
Fluoride .....	20.0	8.98

(i) *Surface treatment rinse.*

SUBPART I—PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zirconium-hafnium surface treated	
Chromium .....	0.391	0.160
Cyanide .....	0.258	0.107
Nickel .....	1.71	1.13
Ammonia .....	119	52.1
Fluoride .....	52.9	23.5

(j) *Alkaline cleaning spent baths.*

SUBPART I—PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zirconium-hafnium alkaline cleaned	
Chromium .....	0.704	0.288
Cyanide .....	0.464	0.192
Nickel .....	3.07	2.03
Ammonia .....	214	93.8
Fluoride .....	95.2	42.3

(k) *Alkaline cleaning rinse.*

SUBPART I—PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zirconium-hafnium alkaline cleaned	
Chromium .....	1.38	0.565
Cyanide .....	0.911	0.377
Nickel .....	6.03	3.99
Ammonia .....	419	184
Fluoride .....	187	82.9

(l) *Sawing or grinding spent emulsions.*

SUBPART I—PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zirconium-hafnium sawed or ground with emulsions	
Chromium .....	0.124	0.051
Cyanide .....	0.082	0.034
Nickel .....	0.540	0.357
Ammonia .....	37.5	16.50
Fluoride .....	16.7	7.42

(m) *Wet air pollution control scrubber blowdown—subpart I—PSES.* There shall be no allowance for the discharge or process wastewater pollutants.

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

(o) *Degreasing rinse—subpart I—PSES.* There shall be no discharge of process wastewater pollutants.

(p) *Molten salt rinse.*

SUBPART I—PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zirconium-hafnium treated with molten salt	
Chromium .....	0.333	0.136
Cyanide .....	0.220	0.091
Nickel .....	1.45	0.960
Ammonia .....	101	44.3
Fluoride .....	45	20

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

SUBPART I—PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
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(r) *Sawing or grinding rinse.*

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## SUBPART I—PSES

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(t) *Inspection and testing wastewater.*

## SUBPART I—PSES

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Fluoride .....	0.917	0.407

[50 FR 34270, Aug. 23, 1985; 51 FR 2889, Jan. 22, 1986, as amended at 54 FR 11352, Mar. 17, 1989]

## § 471.95 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 shall not exceed the following:

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

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

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

(d) *Extrusion press hydraulic fluid leakage.*

## SUBPART I—PSNS

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

(f) *Heat treatment contact cooling water.*

## SUBPART I—PSNS

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

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(2) Process wastewater pollutants may be discharged, with no allowance for any pollutants discharged, provided the facility owner or operator demonstrates, on the basis of analytical methods set forth in or approved pursuant to 40 CFR part 136, that the concentrations of nitrosamine compounds in the wastewater discharged from the tube reducing process do not exceed 0.050 mg/l of N-nitrosodimethylamine, 0.020 mg/l of N-nitrosodiphenylamine, and 0.020 mg/l of N-nitrosodi-n-propylamine.

(3) The demonstration required under subparagraph (g)(2) of this section shall be made once per month until the demonstration has been made for all three nitrosamine compounds for six consecutive months, after which time the demonstration may be made once per quarter. If a sample is found to contain