

§ 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 | (¹) | (¹) |

¹ 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 | (¹) | (¹) |

¹ 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 | (¹) | (¹) |

¹ Within range of 7.5 to 10.0 at all times.

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- (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 | (¹) | (¹) |

¹ 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 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------|
| | 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 |

(r) *Sawing or grinding rinse.*

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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 sawed or ground zirconium-hafnium rinsed | |
| Chromium | 0.079 | 0.033 |
| Cyanide | 0.052 | 0.022 |
| Nickel | 0.346 | 0.229 |
| Ammonia | 24 | 10.6 |
| Fluoride | 10.7 | 4.75 |

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

(t) *Inspection and testing wastewater.*

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 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 |

[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

| 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 |
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| Nickel | 0.455 | 0.301 |
| Ammonia | 31.6 | 13.9 |
| Fluoride | 14.1 | 6.26 |

(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

| 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—PSNS.*

(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 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