

Environmental Protection Agency

§ 471.64

§ 471.64 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 titanium forming process wastewater introduced into a POTW shall not exceed the following values:

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

(b) *Rolling contact cooling water.*

SUBPART F—PSES

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|---|-----------------------------|
| | mg/off-kg (pounds per million off-pounds) of titanium rolled with contact cooling water | |
| Cyanide | 0.142 | 0.059 |
| Lead | 0.205 | 0.098 |
| Zinc | 0.713 | 0.298 |
| Ammonia | 65.1 | 28.6 |
| Fluoride | 29.1 | 12.9 |

(c) *Drawing spent neat oils—subpart F—PSES.* There shall be no discharge of process wastewater pollutants.

(d) *Extrusion spent neat oils—subpart F—PSES.* There shall be no discharge of process wastewater pollutants.

(e) *Extrusion spent emulsions.*

SUBPART F—PSES

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|--|-----------------------------|
| | mg/off-kg (pounds per million off-pounds) of titanium extruded | |
| Cyanide | 0.021 | 0.009 |
| Lead | 0.030 | 0.015 |
| Zinc | 0.105 | 0.044 |
| Ammonia | 9.59 | 4.22 |
| Fluoride | 4.28 | 1.90 |

(f) *Extrusion press hydraulic fluid leakage.*

SUBPART F—PSES

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|--|-----------------------------|
| | mg/off-kg (pounds per million off-pounds) of titanium extruded | |
| Cyanide | 0.052 | 0.022 |
| Lead | 0.75 | 0.036 |
| Zinc | 0.260 | 0.109 |
| Ammonia | 23.7 | 10.5 |
| Fluoride | 10.6 | 4.70 |

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

(h) *Forging contact cooling water.*

SUBPART F—PSES

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|--|-----------------------------|
| | mg/off-kg (pounds per million off-pounds) of forged titanium cooled with water | |
| Cyanide | 0.029 | 0.012 |
| Lead | 0.042 | 0.020 |
| Zinc | 0.146 | 0.061 |
| Ammonia | 13.3 | 5.86 |
| Fluoride | 5.95 | 2.64 |

(i) *Forging equipment cleaning wastewater.*

SUBPART F—PSES

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|--|-----------------------------|
| | mg/off-kg (pounds per million off-pounds) of titanium forged | |
| Cyanide | 0.012 | 0.005 |
| Lead | 0.017 | 0.008 |
| Zinc | 0.059 | 0.025 |
| Ammonia | 5.33 | 2.35 |
| Fluoride | 2.38 | 1.06 |

(j) *Forging press hydraulic fluid leakage.*

SUBPART F—PSES

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|--|-----------------------------|
| | mg/off-kg (pounds per million off-pounds) of titanium forged | |
| Cyanide | 0.293 | 0.121 |
| Lead | 0.424 | 0.202 |
| Zinc | 1.48 | 0.616 |
| Ammonia | 135 | 59.2 |
| Fluoride | 60.1 | 26.7 |

§ 471.64

40 CFR Ch. I (7-1-11 Edition)

(k) *Tube reducing spent lubricants—subpart F—PSES.* There shall be no discharge of process wastewater pollutants.

(l) *Heat treatment contact cooling water—subpart F—PSES.* There shall be no discharge allowance for the discharge of process wastewater pollutants.

(m) *Surface treatment spent baths.*

SUBPART F—PSES

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|---|-----------------------------|
| | mg/off-kg (pounds per million off-pounds) of titanium surface treated | |
| Cyanide | 0.061 | 0.025 |
| Lead | 0.088 | 0.042 |
| Zinc | 0.304 | 0.127 |
| Ammonia | 27.7 | 12.2 |
| Fluoride | 12.4 | 5.49 |

(n) *Surface treatment rinse.*

SUBPART F—PSES

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|---|-----------------------------|
| | mg/off-kg (pounds per million off-pounds) of titanium surface treated | |
| Cyanide | 0.847 | 0.351 |
| Lead | 1.23 | 0.584 |
| Zinc | 4.27 | 1.78 |
| Ammonia | 389 | 171 |
| Fluoride | 174 | 77.1 |

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

SUBPART F—PSES

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|---|-----------------------------|
| | mg/off-kg (pounds per million off-pounds) of titanium surface treated or forged | |
| Cyanide | 0.062 | 0.026 |
| Lead | 0.090 | 0.043 |
| Zinc | 0.313 | 0.131 |
| Ammonia | 28.5 | 12.6 |
| Fluoride | 12.8 | 5.65 |

(p) *Alkaline cleaning spent baths.*

SUBPART F—PSES

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|--|-----------------------------|
| | mg/off-kg (pounds per million off-pounds) of titanium alkaline cleaned | |
| Cyanide | 0.070 | 0.029 |
| Lead | 0.101 | 0.048 |
| Zinc | 0.351 | 0.147 |
| Ammonia | 32.0 | 14.1 |
| Fluoride | 14.3 | 6.34 |

(q) *Alkaline cleaning rinse.*

SUBPART F—PSES

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|--|-----------------------------|
| | mg/off-kg (pounds per million off-pounds) of titanium alkaline cleaned | |
| Cyanide | 0.080 | 0.033 |
| Lead | 0.116 | 0.055 |
| Zinc | 0.403 | 0.169 |
| Ammonia | 36.8 | 16.2 |
| Fluoride | 16.4 | 7.29 |

(r) *Molten salt rinse.*

SUBPART F—PSES

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|--|-----------------------------|
| | mg/off-kg (pounds per million off-pounds) of titanium treated with molten salt | |
| Cyanide | 0.277 | 0.115 |
| Lead | 0.401 | 0.191 |
| Zinc | 1.40 | 0.583 |
| Ammonia | 128 | 56.0 |
| Fluoride | 56.8 | 25.2 |

(s) *Tumbling wastewater.*

SUBPART F—PSES

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|---|-----------------------------|
| | mg/off-kg (pounds per million off-pounds) of titanium tumbled | |
| Cyanide | 0.023 | 0.010 |
| Lead | 0.033 | 0.016 |
| Zinc | 0.116 | 0.048 |
| Ammonia | 10.6 | 4.63 |
| Fluoride | 4.70 | 2.09 |

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

Environmental Protection Agency

§ 471.65

(u) *Sawing or grinding spent emulsions.*

SUBPART F—PSES

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|--|-----------------------------|
| | mg/off-kg (pounds per million off-pounds) of titanium sawed or ground with emulsions | |
| Cyanide | 0.053 | 0.022 |
| Lead | 0.077 | 0.037 |
| Zinc | 0.267 | 0.112 |
| Ammonia | 24.4 | 10.7 |
| Fluoride | 10.9 | 4.83 |

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

SUBPART F—PSES

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|--|-----------------------------|
| | mg/off-kg (pounds per million off-pounds) of titanium sawed or ground with contact cooling water | |
| Cyanide | 0.138 | 0.057 |
| Lead | 0.200 | 0.095 |
| Zinc | 0.695 | 0.291 |
| Ammonia | 63.5 | 27.9 |
| Fluoride | 28.3 | 12.6 |

(w) *Dye penetrant testing wastewater.*

SUBPART F—PSES

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|---|-----------------------------|
| | mg/off-kg (pounds per million off-pounds) of titanium treated using dye penetrant methods | |
| Cyanide | 0.325 | 0.135 |
| Lead | 0.471 | 0.224 |
| Zinc | 1.64 | 0.638 |
| Ammonia | 149 | 65.7 |
| Fluoride | 66.7 | 29.6 |

(x) *Miscellaneous wastewater sources.*

SUBPART F—PSES

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|--|-----------------------------|
| | mg/off-kg (pounds per million off-pounds) of titanium formed | |
| Cyanide | 0.010 | 0.004 |
| Lead | 0.014 | 0.007 |
| Zinc | 0.048 | 0.020 |
| Ammonia | 4.32 | 1.90 |
| Fluoride | 1.93 | 0.856 |

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

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

§ 471.65 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 titanium forming process wastewater shall not exceed the values set forth below:

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

(b) *Rolling contact cooling water.*

SUBPART F—PSNS

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|---|-----------------------------|
| | mg/off-kg (pounds per million off-pounds) of titanium rolled with contact cooling water | |
| Cyanide | 0.142 | 0.059 |
| Lead | 0.205 | 0.098 |
| Zinc | 0.713 | 0.298 |
| Ammonia | 65.1 | 28.6 |
| Fluoride | 29.1 | 12.9 |

(c) *Drawing spent neat oils—subpart F—PSNS.* There shall be no discharge of process wastewater pollutants.

(d) *Extrusion spent neat oils—subpart F—PSNS.* There shall be no discharge of process wastewater pollutants.

(e) *Extrusion spent emulsions.*