PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY—Continued

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| Lead | 3.315 | 1.539 |
| Nickel | 6.512 | 4.381 |
| Titanium | 6.275 | 2.723 |

(j) Sponge crushing and screening wet air pollution control.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| | mg/kg (pounds per million pounds) of titanium produced | |
| Chromium (total) | 0.239 | 0.097 |
| Lead | 0.181 | 0.084 |
| Nickel | 0.356 | 0.239 |
| Titanium | 0.343 | 0.149 |

(k) Acid pickle and wash water.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| | mg/kg (pounds per million pounds) of titanium pickled | |
| Chromium (total) | 0.023 | 0.009 |
| Lead | 0.017 | 0.008 |
| Nickel | 0.034 | 0.023 |
| Titanium | 0.032 | 0.014 |

(l) Scrap milling wet air pollution control.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| | mg/kg (pounds per million pounds) of scrap milled | |
| Chromium (total) | 0.084 | 0.034 |
| Lead | 0.064 | 0.030 |
| Nickel | 0.125 | 0.084 |
| Titanium | 0.120 | 0.052 |

(m) Scrap detergent wash water.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| | mg/kg (pounds per million pounds) of scrap washed | |
| Chromium (total) | 6.684 | 2.710 |
| Lead | 5.058 | 2.348 |
| Nickel | 9.935 | 6.684 |
| Titanium | 9.574 | 4.155 |

(n) Casting crucible wash water.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| | mg/kg (pounds per million pounds) of titanium cast | |
| Chromium (total) | 0.176 | 0.072 |
| Lead | 0.134 | 0.062 |
| Nickel | 0.262 | 0.176 |
| Titanium | 0.253 | 0.110 |

(o) Casting contact cooling water.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| | mg/kg (pounds per million pounds) of titanium cast | |
| Chromium (total) | 27.000 | 10.950 |
| Lead | 20.430 | 9.486 |
| Nickel | 40.140 | 27.000 |
| Titanium | 38.680 | 16.780 |

## § 421.306 Pretreatment standards for new sources.

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. The mass of wastewater pollutants in primary and secondary titanium process wastewater introduced into a POTW shall not exceed the following values:

(a) Chlorination off-gas wet air pollution control.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| | mg/kg (pounds per million pounds) of $TiCl_4$ produced | |
| Chromium (total) | 0.346 | 0.140 |
| Lead | 0.262 | 0.122 |
| Nickel | 0.515 | 0.346 |
| Titanium | 0.496 | 0.215 |

(b) Chlorination area-vent wet air pollution control.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| | mg/kg (pounds per million pounds) of $TiCl_4$ produced | |
| Chromium (total) | 0.385 | 0.156 |
| Lead | 0.291 | 0.135 |
| Nickel | 0.572 | 0.385 |
| Titanium | 0.551 | 0.239 |

(c) $TiCl_4$ handling wet air pollution control.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| | mg/kg (pounds per million pounds) of $TiCl_4$ handled | |
| Chromium (total) | 0.069 | 0.028 |
| Lead | 0.052 | 0.024 |
| Nickel | 0.103 | 0.069 |
| Titanium | 0.099 | 0.043 |

(d) Reduction area wet air pollution control.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| | mg/kg (pounds per million pounds) of titanium produced | |
| Chromium (total) | 1.528 | 0.620 |
| Lead | 1.156 | 0.537 |
| Nickel | 2.272 | 1.528 |

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY—Continued

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| Titanium | 2.189 | 0.950 |

(e) Melt cell wet air pollution control.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| | mg/kg (pounds per million pounds) of titanium produced | |
| Chromium (total) | 0.787 | 0.319 |
| Lead | 0.595 | 0.276 |
| Nickel | 1.169 | 0.787 |
| Titanium | 1.127 | 0.489 |

(f) Chlorine liquefaction wet air pollution control.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| | mg/kg (pounds per million pounds) of titanium produced | |
| Chromium (total) | 0.000 | 0.000 |
| Lead | 0.000 | 0.000 |
| Nickel | 0.000 | 0.000 |
| Titanium | 0.000 | 0.000 |

(g) Sodium reduction container reconditioning wash water.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| | mg/kg (pounds per million pounds) of titanium produced | |
| Chromium (total) | 0.474 | 0.192 |
| Lead | 0.359 | 0.167 |
| Nickel | 0.705 | 0.474 |
| Titanium | 0.679 | 0.295 |

(h) Chip crushing wet air pollution control.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| | mg/kg (pounds per million pounds) of titanium produced | |
| Chromium (total) | 0.000 | 0.000 |
| Lead | 0.000 | 0.000 |
| Nickel | 0.000 | 0.000 |
| Titanium | 0.000 | 0.000 |

(i) Acid leachate and rinse water.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| | mg/kg (pounds per million pounds) of titanium produced | |
| Chromium (total) | 4.381 | 1.776 |
| Lead | 3.315 | 1.539 |
| Nickel | 6.512 | 4.381 |
| Titanium | 6.275 | 2.723 |

(j) Sponge crushing and screening wet air pollution control.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| | mg/kg (pounds per million pounds) of titanium produced | |
| Chromium (total) | 0.000 | 0.000 |
| Lead | 0.000 | 0.000 |
| Nickel | 0.000 | 0.000 |
| Titanium | 0.000 | 0.000 |

(k) Acid pickle and wash water.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| | mg/kg (pounds per million pounds) of titanium pickled | |
| Chromium (total) | 0.023 | 0.009 |
| Lead | 0.017 | 0.008 |
| Nickel | 0.034 | 0.023 |
| Titanium | 0.032 | 0.014 |

(l) Scrap milling wet air pollution control.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| | mg/kg (pounds per million pounds) of scrap milled | |
| Chromium (total) | 0.000 | 0.000 |
| Lead | 0.000 | 0.000 |
| Nickel | 0.000 | 0.000 |
| Titanium | 0.000 | 0.000 |

(m) Scrap detergent wash water.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| | mg/kg (pounds per million pounds) of scrap washed | |
| Chromium (total) | 6.684 | 2.710 |
| Lead | 5.058 | 2.348 |
| Nickel | 9.935 | 6.684 |
| Titanium | 9.574 | 4.155 |

(n) Casting crucible wash water.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| | mg/kg (pounds per million pounds) of titanium cast | |
| Chromium (total) | 0.176 | 0.072 |
| Lead | 0.134 | 0.062 |
| Nickel | 0.262 | 0.176 |
| Titanium | 0.253 | 0.110 |

(o) Casting contact cooling water.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| | mg/kg (pounds per million pounds) of titanium cast | |
| Chromium (total) | 27.000 | 10.950 |
| Lead | 20.430 | 9.486 |
| Nickel | 40.140 | 27.000 |
| Titanium | 38.680 | 16.780 |

**§ 421.307 [Reserved]**

## Subpart AC—Secondary Tungsten and Cobalt Subcategory

SOURCE: 50 FR 38386, Sept. 20, 1985, unless otherwise noted.

**§ 421.310 Applicability: Description of the secondary tungsten and cobalt subcategory.**

The provisions of this subpart are applicable to discharges resulting from the production of tungsten or cobalt at secondary tungsten and cobalt facilities processing tungsten or tungsten carbide scrap raw materials.

**§ 421.311 Specialized definitions.**

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

**§ 421.312 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.**

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Tungsten detergent wash and rinse.

BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| | mg/kg (pounds per million pounds) of tungsten scrap washed | |
| Copper | 0.371 | 0.195 |
| Nickel | 0.374 | 0.248 |
| Ammonia (as N) | 25.990 | 11.430 |
| Cobalt | 0.768 | 0.337 |
| Tungsten | 1.357 | 0.542 |
| Oil and grease | 3.900 | 2.340 |
| Total suspended solids | 7.995 | 3.803 |
| pH | (1) | (1) |

[1] Within the range of 7.5 to 10.0 at all times.

(b) Tungsten leaching acid.

BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| | mg/kg (pounds per million pounds) of tungsten produced | |
| Copper | 4.885 | 2.571 |
| Nickel | 4.937 | 3.265 |
| Ammonia (as N) | 342.700 | 150.700 |
| Cobalt | 10.130 | 4.448 |
| Tungsten | 17.890 | 7.147 |
| Oil and grease | 51.420 | 30.850 |
| Total suspended solids | 105.400 | 50.140 |
| pH | (1) | (1) |

[1] Within the range of 7.5 to 10.0 at all times.

(c) Tungsten post-leaching wash and rinse.

BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|---|
| | mg/kg (pounds per million pounds) of tungsten produced | |
| Copper | 9.772 | 5.143 |
| Nickel | 9.875 | 6.532 |
| Ammonia (as N) | 685.600 | 301.400 |
| Cobalt | 20.263 | 8.897 |
| Tungsten | 35.800 | 14.300 |
| Oil and grease | 102.900 | 61.720 |
| Total suspended solids | 210.900 | 100.300 |
| pH | (1) | (1) |

[1] Within the range of 7.5 to 10.0 at all times.

(d) Synthetic scheelite filtrate.