

**§ 421.277**

(b) Dryer vent caustic wet air pollution control.

**PSNS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY**

| Pollutant or pollutant property | Maximum for any 1 day  | Maximum for monthly average |
|---------------------------------|--|-----------------------------|
|                                 | mg/kg (pounds per million pounds) of mischmetal produced from wet rare earth chlorides |                             |
| Hexachlorobenzene .....         | 0.007  | 0.007                       |
| Chromium (total) .....          | 0.272  | 0.110                       |
| Lead .....                      | 0.206  | 0.095                       |
| Nickel .....                    | 0.404  | 0.272                       |

(c) Electrolytic cell water quench and scrubber.

**PSNS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY**

| Pollutant or pollutant property | Maximum for any 1 day  | Maximum for monthly average |
|---------------------------------|--|-----------------------------|
|                                 | mg/kg (pounds per million pounds) of total mischmetal produced |                             |
| Hexachlorobenzene .....         | 0.094  | 0.094                       |
| Chromium (total) .....          | 3.474  | 1.409                       |
| Lead .....                      | 2.629  | 1.221                       |
| Nickel .....                    | 5.165  | 3.474                       |

(d) Electrolytic cell caustic wet air pollution control.

**PSNS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY**

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

(e) Sodium hypochlorite filter backwash.

**PSNS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY**

| Pollutant or pollutant property | Maximum for any 1 day  | Maximum for monthly average |
|---------------------------------|--|-----------------------------|
|                                 | mg/kg (pounds per million pounds) of total mischmetal produced |                             |
| Hexachlorobenzene .....         | 0.004  | 0.004                       |

**40 CFR Ch. I (7-1-06 Edition)**

**PSNS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY—Continued**

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|-----------------------|-----------------------------|
| Chromium (total) .....          | 0.134                 | 0.054                       |
| Lead .....                      | 0.101                 | 0.047                       |
| Nickel .....                    | 0.199                 | 0.134                       |

**§ 421.277 [Reserved]**

**Subpart Z—Secondary Tantalum Subcategory**

SOURCE: 50 FR 38374, Sept. 20, 1985, unless otherwise noted.

**§ 421.280 Applicability: Description of the secondary tantalum subcategory.**

The provisions of this subpart are applicable to discharges resulting from the production of tantalum at secondary tantalum facilities.

**§ 421.281 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.

**§ 421.282 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) Tantalum alloy leach and rinse.

**BPT LIMITATIONS FOR THE SECONDARY TANTALUM SUBCATEGORY**

| Pollutant or pollutant property | Maximum for any 1 day   | Maximum for monthly average |
|---------------------------------|---|-----------------------------|
|                                 | mg/kg (pounds per million pounds) of tantalum powder produced |                             |
| Copper .....                    | 438.100   | 230.600                     |
| Lead .....                      | 96.850  | 46.120                      |
| Nickel .....                    | 442.800   | 292.900                     |
| Zinc .....                      | 336.700   | 140.700                     |
| Tantalum .....                  | 103.800   | .....                       |

**Environmental Protection Agency**

**§ 421.283**

**BPT LIMITATIONS FOR THE SECONDARY  
TANTALUM SUBCATEGORY—Continued**

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|-----------------------|-----------------------------|
| Total suspended solids .....    | 9,455.000             | 4,497.000                   |
| pH .....                        | ( <sup>1</sup> )      | ( <sup>1</sup> )            |

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

(b) Capacitor leach and rinse.

**BPT LIMITATIONS FOR THE SECONDARY  
TANTALUM SUBCATEGORY**

| Pollutant or pollutant property | Maximum for any 1 day   | Maximum for monthly average |
|---------------------------------|---|-----------------------------|
|                                 | mg/kg (pounds per million pounds) of tantalum powder produced from leaching |                             |
| Copper .....                    | 38.380  | 20.200                      |
| Lead .....                      | 8.484   | 4.040                       |
| Nickel .....                    | 38.780  | 25.650                      |
| Zinc .....                      | 29.490  | 12.320                      |
| Tantalum .....                  | 9.090   | .....                       |
| Total suspended solids .....    | 828.200   | 393.900                     |
| pH .....                        | ( <sup>1</sup> )  | ( <sup>1</sup> )            |

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

(c) Tantalum sludge leach and rinse.

**BPT LIMITATIONS FOR THE SECONDARY  
TANTALUM SUBCATEGORY**

| Pollutant or pollutant property | Maximum for any 1 day   | Maximum for monthly average |
|---------------------------------|---|-----------------------------|
|                                 | mg/kg (pounds per million pounds) of equivalent pure tantalum powder produced |                             |
| Copper .....                    | 390.100   | 205.300                     |
| Lead .....                      | 86.230  | 41.060                      |
| Nickel .....                    | 394.200   | 260.700                     |
| Zinc .....                      | 299.700   | 125.200                     |
| Tantalum .....                  | 92.390  | .....                       |
| Total suspended solids .....    | 8,417.000   | 4,003.000                   |
| pH .....                        | ( <sup>1</sup> )  | ( <sup>1</sup> )            |

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

(d) Tantalum powder acid wash and rinse.

**BPT LIMITATIONS FOR THE SECONDARY  
TANTALUM SUBCATEGORY**

| Pollutant or pollutant property | Maximum for any 1 day   | Maximum for monthly average |
|---------------------------------|---|-----------------------------|
|                                 | mg/kg (pounds per million pounds) of tantalum powder produced |                             |
| Copper .....                    | 0.665   | 0.350                       |
| Lead .....                      | 0.147   | 0.070                       |
| Nickel .....                    | 0.672   | 0.445                       |

**BPT LIMITATIONS FOR THE SECONDARY  
TANTALUM SUBCATEGORY—Continued**

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|-----------------------|-----------------------------|
| Zinc .....                      | 0.511                 | 0.214                       |
| Tantalum .....                  | 0.158                 | .....                       |
| Total suspended solids .....    | 14.350                | 6.825                       |
| pH .....                        | ( <sup>1</sup> )      | ( <sup>1</sup> )            |

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

(e) Leaching wet air pollution control.

**BPT LIMITATIONS FOR THE SECONDARY  
TANTALUM SUBCATEGORY**

| Pollutant or pollutant property | Maximum for any 1 day   | Maximum for monthly average |
|---------------------------------|---|-----------------------------|
|                                 | mg/kg (pounds per million pounds) of equivalent pure tantalum powder produced |                             |
| Copper .....                    | 9.272   | 4.880                       |
| Lead .....                      | 2.050   | 0.976                       |
| Nickel .....                    | 9.370   | 6.198                       |
| Zinc .....                      | 7.125   | 2.977                       |
| Tantalum .....                  | 2.196   | .....                       |
| Total suspended solids .....    | 200.100   | 95.160                      |
| pH .....                        | ( <sup>1</sup> )  | ( <sup>1</sup> )            |

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

**§ 421.283 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.**

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 available technology economically achievable:

(a) Tantalum alloy leach and rinse.

**BAT LIMITATIONS FOR THE SECONDARY  
TANTALUM SUBCATEGORY**

| Pollutant or pollutant property | Maximum for any 1 day   | Maximum for monthly average |
|---------------------------------|---|-----------------------------|
|                                 | mg/kg (pounds per million pounds) of tantalum powder produced |                             |
| Copper .....                    | 295.200   | 140.700                     |
| Lead .....                      | 64.570  | 29.980                      |
| Nickel .....                    | 126.800   | 85.320                      |
| Zinc .....                      | 235.200   | 96.850                      |
| Tantalum .....                  | 103.800   | .....                       |