§ 421.103 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) Subpart J—Tungstic Acid Rinse.

**BAT EFFLUENT LIMITATIONS**

<table>
<thead>
<tr>
<th>Pollutant or pollutant property</th>
<th>Maximum for any 1 day</th>
<th>Maximum for monthly average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead</td>
<td>11.490</td>
<td>5.333</td>
</tr>
<tr>
<td>Zinc</td>
<td>41.850</td>
<td>17.230</td>
</tr>
<tr>
<td>Ammonia (as N)</td>
<td>5,469.000</td>
<td>2,404.000</td>
</tr>
</tbody>
</table>

(b) Subpart J—Acid Leach Wet Air Pollution Control.

**BAT EFFLUENT LIMITATIONS**

<table>
<thead>
<tr>
<th>Pollutant or pollutant property</th>
<th>Maximum for any 1 day</th>
<th>Maximum for monthly average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead</td>
<td>1.003</td>
<td>0.466</td>
</tr>
<tr>
<td>Zinc</td>
<td>3.653</td>
<td>1.504</td>
</tr>
<tr>
<td>Ammonia (as N)</td>
<td>477.400</td>
<td>209.900</td>
</tr>
</tbody>
</table>

(c) Subpart J—Alkali Leach Wash.

**BAT EFFLUENT LIMITATIONS**

<table>
<thead>
<tr>
<th>Pollutant or pollutant property</th>
<th>Maximum for any 1 day</th>
<th>Maximum for monthly average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>Zinc</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>Ammonia (as N)</td>
<td>0.000</td>
<td>0.000</td>
</tr>
</tbody>
</table>

(d) Subpart J—Alkali Leach Wash Condensate.

**BAT EFFLUENT LIMITATIONS**

<table>
<thead>
<tr>
<th>Pollutant or pollutant property</th>
<th>Maximum for any 1 day</th>
<th>Maximum for monthly average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead</td>
<td>5.372</td>
<td>2.494</td>
</tr>
<tr>
<td>Zinc</td>
<td>19.570</td>
<td>8.057</td>
</tr>
<tr>
<td>Ammonia (as N)</td>
<td>2,557.000</td>
<td>1,124.000</td>
</tr>
</tbody>
</table>

(e) Subpart J—Ion Exchange Raffinate (Commingled With Other Process or Nonprocess Waters).

**BAT EFFLUENT LIMITATIONS**

<table>
<thead>
<tr>
<th>Pollutant or pollutant property</th>
<th>Maximum for any 1 day</th>
<th>Maximum for monthly average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead</td>
<td>24.780</td>
<td>11.500</td>
</tr>
<tr>
<td>Zinc</td>
<td>90.240</td>
<td>37.160</td>
</tr>
<tr>
<td>Ammonia (as N)</td>
<td>11,790.000</td>
<td>5,185.000</td>
</tr>
</tbody>
</table>

(f) Subpart J—Ion Exchange Raffinate (Not Commingled With Other Process or Nonprocess Waters).

**BAT EFFLUENT LIMITATIONS**

<table>
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<tr>
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<td>11.500</td>
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<tr>
<td>Zinc</td>
<td>90.240</td>
<td>37.160</td>
</tr>
<tr>
<td>Ammonia (as N)</td>
<td>11,790.000</td>
<td>5,185.000</td>
</tr>
</tbody>
</table>

1 The effluent limitation for this pollutant does not apply if a) the motor liquor feed to the ion exchange process or the raffinate from the ion exchange process contains sulfates at concentrations exceeding 1000 mg/l; b) this motor liquor or raffinate is treated by ammonia steam stripping; and c) such mother liquor or raffinate is not commingled with any other process or nonprocess waters prior to steam stripping for ammonia removal.

(g) Subpart J—Calcium Tungstate Precipitate Wash.
Environmental Protection Agency § 421.103

**BAT EFFLUENT LIMITATIONS**

<table>
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<tr>
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<th>Maximum for any one day</th>
<th>Maximum for monthly average</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mg/kg (pounds per million pounds of calcium tungstate (as W) produced)</td>
<td></td>
</tr>
</tbody>
</table>

- **Pollutant or pollutant property**
  - **Maximum for any one day**
  - **Maximum for monthly average**
  - **mg/kg (pounds per million pounds of calcium tungstate (as W) produced)**

  - **Lead**
    - 75.280
    - 31.000
  - **Zinc**
    - 9,838.000
    - 4,325.000

  (h) Subpart J—Crystallization and Drying of Ammonium Paratungstate.

<table>
<thead>
<tr>
<th>Pollutant or pollutant property</th>
<th>Maximum for any one day</th>
<th>Maximum for monthly average</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mg/kg (pounds per million pounds of ammonium paratungstate (as W) produced)</td>
<td></td>
</tr>
</tbody>
</table>

- **Pollutant or pollutant property**
  - **Maximum for any one day**
  - **Maximum for monthly average**
  - **mg/kg (pounds per million pounds of ammonium paratungstate (as W) produced)**

  - **Lead**
    - 0.000
    - 0.000
  - **Zinc**
    - 0.000
    - 0.000
  - **Ammonia (as N)**
    - 0.000
    - 0.000

  (i) Subpart J—Ammonium Paratungstate Conversion to Oxides Wet Air Pollution Control.

<table>
<thead>
<tr>
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<th>Maximum for any one day</th>
<th>Maximum for monthly average</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mg/kg (pounds per million pounds of tungstic oxide (as W) produced)</td>
<td></td>
</tr>
</tbody>
</table>

- **Pollutant or pollutant property**
  - **Maximum for any one day**
  - **Maximum for monthly average**
  - **mg/kg (pounds per million pounds of tungstic oxide (as W) produced)**

  - **Lead**
    - 0.773
    - 0.359
  - **Zinc**
    - 2.817
    - 1.160
  - **Ammonia (as N)**
    - 368.200
    - 161.900

  (j) Subpart J—Ammonium Paratungstate Conversion to Oxides Water of Formation.

<table>
<thead>
<tr>
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<th>Maximum for any one day</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>mg/kg (pounds per million pounds of tungsten metal produced)</td>
<td></td>
</tr>
</tbody>
</table>

- **Pollutant or pollutant property**
  - **Maximum for any one day**
  - **Maximum for monthly average**
  - **mg/kg (pounds per million pounds of tungsten metal produced)**

  - **Lead**
    - 0.862
    - 0.400
  - **Zinc**
    - 3.142
    - 1.294
  - **Ammonia (as N)**
    - 410.600
    - 180.500

  (k) Subpart J—Reduction to Tungsten Wet Air Pollution Control.

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<td>mg/kg (pounds per million pounds of tungsten metal produced)</td>
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</tbody>
</table>

- **Pollutant or pollutant property**
  - **Maximum for any one day**
  - **Maximum for monthly average**
  - **mg/kg (pounds per million pounds of tungsten metal produced)**

  - **Lead**
    - 0.137
    - 0.064
  - **Zinc**
    - 0.499
    - 0.205
  - **Ammonia (as N)**
    - 65.190
    - 28.660

  (l) Subpart J—Reduction to Tungsten Water of Formation.

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- **Pollutant or pollutant property**
  - **Maximum for any one day**
  - **Maximum for monthly average**
  - **mg/kg (pounds per million pounds of tungsten metal produced)**

  - **Lead**
    - 0.018
    - 0.008
  - **Zinc**
    - 0.064
    - 0.026
  - **Ammonia (as N)**
    - 8.398
    - 3.692

  (m) Subpart J—Tungsten Powder Acid Leach and Wash.

<table>
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</table>

- **Pollutant or pollutant property**
  - **Maximum for any one day**
  - **Maximum for monthly average**
  - **mg/kg (pounds per million pounds of tungsten metal produced)**

  - **Lead**
    - 0.672
    - 0.312
  - **Zinc**
    - 2.448
    - 1.008
  - **Ammonia (as N)**
    - 319.900
    - 140.700

  (n) Subpart J—Molybdenum Sulfide Precipitation Wet Air Pollution Control.

<table>
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</table>

- **Pollutant or pollutant property**
  - **Maximum for any one day**
  - **Maximum for monthly average**
  - **mg/kg (pounds per million pounds of tungsten metal produced)**

  - **Lead**
    - 0.000
    - 0.000
  - **Zinc**
    - 0.000
    - 0.000
  - **Ammonia (as N)**
    - 0.000
    - 0.000

  (49 FR 8812, Mar. 8, 1984, as amended at 53 FR 1708, Jan. 21, 1988)