guidelines and standards in direct discharge permits and for pretreatment standards. Compliance with the monthly average effluent limitations guidelines and standards is required regardless of the number of samples analyzed and averaged.

§ 464.04 Compliance date for PSES.

The compliance date of PSES is October 31, 1988.

Subpart A—Aluminum Casting Subcategory

§ 464.10 Applicability; description of the aluminum casting subcategory.

The provisions of this subpart are applicable to discharges to waters of the United States and to the introduction of pollutants into publicly owned treatment works resulting from aluminum casting operations as defined in § 464.02(a).

§ 464.11 Specialized definitions.

For the purpose of this subpart:
(a) Total toxic organics (TTO). TTO is a regulated parameter under PSES (§ 464.15) and PSNS (§ 464.16) for the aluminum subcategory and is comprised of a discrete list of toxic organic pollutants for each process segment where it is regulated, as follows:
(1) Casting Quench (§ 464.15(b) and § 464.16(b)):
   4. benzene
   21. 2,4,6-trichlorophenol
   22. Para-chloro meta-cresol
   23. chloroform (trichloromethane)
   34. 2,4-dimethylphenol
   39. fluoranthene
   44. methylene chloride (dichloromethane)
   65. phenol
   66. bis(2-ethylhexyl) phthalate
   67. butyl benzyl phthalate
   84. pyrene
   85. tetrachloroethylene
   87. trichloroethylene

(2) Die Casting (§ 464.15(c) and § 464.16(c)):
   4. benzene
   7. chlorobenzene
   11. 1,1,1-trichloroethane
   21. 2,4,6-trichlorophenol
   22. para-chloro meta-cresol
   23. chloroform (trichloromethane)
   34. 2,4-dimethylphenol
   39. fluoranthene
   44. methylene chloride (dichloromethane)
   55. napthalene
   55. phenol
   66. bis(2-ethylhexyl) phthalate
   67. butyl benzyl phthalate
   68. di-n-butyl phthalate
   70. diethyl phthalate
   72. benzo[a]anthracene (1,2-benzanthracene)
   73. benzo[a]pyrene (3,4-benzopyrene)
   76. chrysene
   78. anthracene
   80. fluorene
   98. phenanthrene
   94. fluorene
   85. bis(2-ethylhexyl) phthalate
   86. tetrachloroethylene
   87. toluene

(3) Dust Collection Scrubber (§ 464.15(d) and § 464.16(d)):
   1. acenaphthene
   21. 2,4,6-trichlorophenol
   23. chloroform (trichloromethane)
   34. 2,4-dimethylphenol
   39. fluoranthene
   44. methylene chloride (dichloromethane)
   65. phenol
   66. bis(2-ethylhexyl) phthalate
   68. di-n-butyl phthalate
   70. diethyl phthalate
   73. benzo[a]pyrene (3,4-benzopyrene)
   84. pyrene

(4) Investment Casting (§ 464.15(f) and § 464.16(f)):
   11. 1,1,1-trichloroethane
   23. chloroform (trichloromethane)
   44. methylene chloride (dichloromethane)
   66. bis(2-ethylhexyl) phthalate
   84. pyrene
   85. tetrachloroethylene
   87. trichloroethylene

(5) Melting Furnace Scrubber (§ 464.15(g) and § 464.16(g)):
   1. acenaphthene
   21. 2,4,6-trichlorophenol
   23. chloroform (trichloromethane)
   34. 2,4-dimethylphenol
   39. fluoranthene
   44. methylene chloride (dichloromethane)
   65. phenol
   66. bis(2-ethylhexyl) phthalate
   68. di-n-butyl phthalate
   70. diethyl phthalate
   73. benzo[a]pyrene (3,4-benzopyrene)
   84. pyrene

(6) Mold Cooling (§ 464.15(h) and § 464.16(h)):
   4. benzene
   21. 2,4,6-trichlorophenol
   22. para-chloro meta-cresol
   23. chloroform (trichloromethane)
   34. 2,4-dimethylphenol
   39. fluoranthene
Environmental Protection Agency

§ 464.12 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 must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available, except that non-continuous dischargers shall not be subject to the maximum day and maximum for monthly average mass (kg/1,000 kkg or lb/million lb of metal poured; kg/62.3 million Sm³ or lb/billion SCF of air scrubbed) effluent limitations for copper, lead, zinc, total phenols, oil and grease, and TSS. For non-continuous dischargers, annual average mass limitations and maximum day and maximum for monthly average concentration (mg/l) limitations shall apply. Concentration limitation and annual average mass limitation shall only apply to non-continuous dischargers.

(a) Casting Cleaning Operations.

### BPT EFFLUENT LIMITATIONS

<table>
<thead>
<tr>
<th>Pollutant or pollutant property</th>
<th>Maximum for any 1 day (kg/1,000 kkg or lb/million lb of metal poured)</th>
<th>Maximum for monthly average (kg/1,000 kkg or lb/million lb of metal poured)</th>
<th>Annual average 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper (T)</td>
<td>0.077</td>
<td>0.42</td>
<td>0.017</td>
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<tr>
<td>Lead (T)</td>
<td>0.79</td>
<td>0.39</td>
<td>0.022</td>
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<tr>
<td>Zinc (T)</td>
<td>1.14</td>
<td>0.43</td>
<td>0.027</td>
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<tr>
<td>Oil &amp; grease</td>
<td>3.0</td>
<td>1.5</td>
<td>1.0</td>
</tr>
<tr>
<td>pH</td>
<td>(*)</td>
<td>(*)</td>
<td>(*)</td>
</tr>
</tbody>
</table>

1 Within the range of 7.0 to 10.0 at all times.

### (b) Casting Quench Operations.

### BPT EFFLUENT LIMITATIONS

<table>
<thead>
<tr>
<th>Pollutant or pollutant property</th>
<th>Maximum for any 1 day (kg/1,000 kkg or lb/million lb of metal poured)</th>
<th>Maximum for monthly average (kg/1,000 kkg or lb/million lb of metal poured)</th>
<th>Annual average 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper (T)</td>
<td>0.0093</td>
<td>0.0051</td>
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<tr>
<td>Lead (T)</td>
<td>0.0096</td>
<td>0.0047</td>
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<tr>
<td>Zinc (T)</td>
<td>0.0138</td>
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</tr>
<tr>
<td>Oil &amp; grease</td>
<td>0.363</td>
<td>0.121</td>
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<tr>
<td>TSS</td>
<td>0.46</td>
<td>0.182</td>
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<tr>
<td>pH</td>
<td>(*)</td>
<td>(*)</td>
<td>(*)</td>
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</table>

1 Within the range of 7.0 to 10.0 at all times.

### (c) Die Casting Operations.

### BPT EFFLUENT LIMITATIONS

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<tr>
<th>Pollutant or pollutant property</th>
<th>Maximum for any 1 day (kg/1,000 kkg or lb/million lb of metal poured)</th>
<th>Maximum for monthly average (kg/1,000 kkg or lb/million lb of metal poured)</th>
<th>Annual average 1</th>
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</thead>
<tbody>
<tr>
<td>Copper (T)</td>
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<td>0.0421</td>
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<tr>
<td>Lead (T)</td>
<td>0.0791</td>
<td>0.039</td>
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<tr>
<td>Zinc (T)</td>
<td>0.114</td>
<td>0.0431</td>
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</tr>
<tr>
<td>Oil &amp; grease</td>
<td>3.0</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>TSS</td>
<td>3.80</td>
<td>1.50</td>
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<tr>
<td>pH</td>
<td>(*)</td>
<td>(*)</td>
<td>(*)</td>
</tr>
</tbody>
</table>

1 Within the range of 7.0 to 10.0 at all times.