

§ 464.24

²These concentrations must be multiplied by the ratio of (0.086/x) where x is the actual normalized process wastewater flow (in gallons per 1,000 SCF of air scrubbed) for a specific plant.

(d) *Grinding Scrubber Operations.* No discharge of process wastewater pollutants to navigable waters.

(e) *Investment Casting.*

BAT EFFLUENT LIMITATIONS

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|---|-----------------------------|
| | kg/1000 kkg (pounds per million pounds) of metal poured | |
| Copper (T) | 8.48 | 4.63 |
| Lead (T) | 5.84 | 2.86 |
| Zinc (T) | 8.37 | 3.19 |

| | Maximum for any 1 day | Maximum for monthly average | Annual average ¹ |
|------------------|-----------------------|-----------------------------|-----------------------------|
| | (mg/l) ² | (mg/l) ² | |
| Copper (T) | 0.77 | 0.42 | 1.87 |
| Lead (T) | 0.53 | 0.26 | 1.65 |
| Zinc (T) | 0.76 | 0.29 | 1.98 |

¹ kg/1000 kkg (pounds per million pounds) of metal poured.
²These concentrations must be multiplied by the ratio of (1.320/x) where x is the actual normalized process wastewater flow (in gallons per 1,000 pounds of metal poured) for a specific plant.

(f) *Melting Furnace Scrubber Operations.*

BAT EFFLUENT LIMITATIONS

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|--|-----------------------------|
| | kg/62.3 million Sm ³ (pounds per billion SCF) of air scrubbed | |
| Copper (T) | 1.81 | 0.988 |
| Lead (T) | 1.25 | 0.612 |
| Zinc (T) | 1.79 | 0.673 |
| Total phenols | 2.02 | 0.706 |

| | Maximum for any 1 day | Maximum for monthly average | Annual average ¹ |
|---------------------|-----------------------|-----------------------------|-----------------------------|
| | (mg/l) ² | (mg/l) ² | |
| Copper (T) | 0.77 | 0.42 | 0.4 |
| Lead (T) | 0.53 | 0.26 | 0.353 |
| Zinc (T) | 0.76 | 0.29 | 0.424 |
| Total phenols | 0.86 | 0.3 | 0.471 |

¹ kg/62.3 million Sm³ (pounds per billion SCF) of air scrubbed.
²These concentrations must be multiplied by the ratio of (0.282/x) where x is the actual normalized process wastewater flow (in gallons per 1,000 SCF of air scrubbed) for a specific plant.

(g) *Mold Cooling Operations.*

40 CFR Ch. I (7-1-04 Edition)

BAT EFFLUENT LIMITATIONS

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|--|-----------------------------|
| | kg/1,000 kkg (pounds per million pounds) of metal poured | |
| Copper (T) | 0.392 | 0.214 |
| Lead (T) | 0.27 | 0.132 |
| Zinc (T) | 0.387 | 0.148 |

| | Maximum for any 1 day | Maximum for monthly average | Annual average ¹ |
|------------------|-----------------------|-----------------------------|-----------------------------|
| | (mg/l) ² | (mg/l) ² | |
| Copper (T) | 0.77 | 0.42 | 0.0865 |
| Lead (T) | 0.53 | 0.26 | 0.0763 |
| Zinc (T) | 0.76 | 0.29 | 0.0916 |

¹ kg/1,000 kkg (pounds per million pounds) of metal poured.
²These concentrations must be multiplied by the ratio of (61/x) where x is the actual normalized process wastewater flow (in gallons per 1,000 pounds of metal poured) for a specific plant.

[50 FR 45247, Oct. 30, 1985; 51 FR 21761, June 16, 1986]

§ 464.24 New source performance standards.

Any new source subject to this subpart must achieve the following new source performance standards (NSPS), 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 standards for copper, lead, zinc, total phenols, oil and grease, and TSS. For non-continuous dischargers, annual average mass standards and maximum day and maximum for monthly average concentration (mg/l) standards shall apply. Concentration standards and annual average mass standards shall only apply to non-continuous dischargers.

(a) *Casting Quench Operations.*

NSPS

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|--|-----------------------------|
| | kg/1,000 kkg (pounds per million pounds) of metal poured | |
| Copper (T) | 0.0307 | 0.0168 |
| Lead (T) | 0.0211 | 0.0104 |
| Zinc (T) | 0.0303 | 0.0116 |
| Oil and grease | 1.2 | 0.399 |
| TSS | 0.598 | 0.479 |
| pH | (¹) | (¹) |

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

Environmental Protection Agency

§ 464.24

| | Maximum for any 1 day | Maximum for monthly average | Annual average ¹ |
|----------------------|-----------------------|-----------------------------|-----------------------------|
| | (mg/l) ² | (mg/l) ² | |
| Copper (T) | 0.77 | 0.42 | 0.0068 |
| Lead (T) | 0.53 | 0.26 | 0.006 |
| Zinc (T) | 0.76 | 0.29 | 0.0072 |
| Oil and grease | 30 | 10 | 0.199 |
| TSS | 15 | 12 | 0.104 |
| pH | (³) | (³) | (³) |

¹ kg/1,000 kkg (pounds per million pounds) of metal poured.
² These concentrations must be multiplied by the ratio of (4.8/x) where x is the actual normalized process wastewater flow (in gallons per 1,000 pounds of metal poured) for a specific plant.
³ Within the range of 7.0 to 10.0 at all times.

(b) Direct Chill Casting Operations.

NSPS

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|--|-----------------------------|
| | kg/1,000 kkg (pounds per million pounds) of metal poured | |
| Copper (T) | 0.928 | 0.506 |
| Lead (T) | 0.639 | 0.314 |
| Zinc (T) | 0.916 | 0.35 |
| Oil and grease | 36.2 | 12.1 |
| TSS | 18.1 | 14.5 |
| pH | (¹) | (¹) |

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

| | Maximum for any 1 day | Maximum for monthly average | Annual average ¹ |
|----------------------|-----------------------|-----------------------------|-----------------------------|
| | (mg/l) ² | (mg/l) ² | |
| Copper (T) | 0.77 | 0.42 | 0.205 |
| Lead (T) | 0.53 | 0.26 | 0.181 |
| Zinc (T) | 0.76 | 0.29 | 0.217 |
| Oil and grease | 30 | 10 | 6.03 |
| TSS | 15 | 12 | 3.13 |
| pH | (³) | (³) | (³) |

¹ kg/1,000 kkg (pounds per million pounds) of metal poured.
² These concentrations must be multiplied by the ratio of (145/x) where x is the actual normalized process wastewater flow (in gallons per 1,000 pounds of metal poured) for a specific plant.
³ Within the range of 7.0 to 10.0 at all times.

(c) Dust Collection Scrubber Operations.

NSPS

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|--|-----------------------------|
| | kg/62.3 million Sm ³ (pounds per billion SCF) of air scrubbed | |
| Copper (T) | 0.553 | 0.301 |
| Lead (T) | 0.38 | 0.187 |
| Zinc (T) | 0.545 | 0.208 |
| Total phenols | 0.617 | 0.215 |
| Oil and grease | 21.5 | 7.18 |
| TSS | 10.8 | 8.61 |
| pH | (¹) | (¹) |

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

| | Maximum for any 1 day | Maximum for monthly average | Annual average ¹ |
|----------------------|-----------------------|-----------------------------|-----------------------------|
| | (mg/l) ² | (mg/l) ² | |
| Copper (T) | 0.77 | 0.42 | 0.122 |
| Lead (T) | 0.53 | 0.26 | 0.108 |
| Zinc (T) | 0.76 | 0.29 | 0.129 |
| Total phenols | 0.86 | 0.3 | 0.144 |
| Oil and grease | 30 | 10 | 3.59 |
| TSS | 15 | 12 | 1.87 |
| pH | (³) | (³) | (³) |

¹ kg/62.3 million Sm³ (pounds per billion SCF) of air scrubbed.

² These concentrations must be multiplied by the ratio of (0.086/x) where x is the actual normalized process wastewater flow (in gallons per 1,000 SCF of air scrubbed) for a specific plant.

³ Within the range of 7.0 to 10.0 at all times.

(d) Grinding Scrubber Operations. No discharge of process wastewater pollutants to navigable waters.

(e) Investment Casting.

NSPS

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|--|-----------------------------|
| | kg/1,000 kkg (pounds per million pounds) of metal poured | |
| Copper (T) | 8.48 | 4.63 |
| Lead (T) | 5.84 | 2.86 |
| Zinc (T) | 8.37 | 3.19 |
| Oil and grease | 330 | 110 |
| TSS | 165 | 132 |
| pH | (¹) | (¹) |

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

| | Maximum for any 1 day | Maximum for monthly average | Annual average ¹ |
|----------------------|-----------------------|-----------------------------|-----------------------------|
| | (mg/l) ² | (mg/l) ² | |
| Copper (T) | 0.77 | 0.42 | 1.87 |
| Lead (T) | 0.53 | 0.26 | 1.65 |
| Zinc (T) | 0.76 | 0.29 | 1.98 |
| Oil and grease | 30 | 10 | 55.1 |
| TSS | 15 | 12 | 28.6 |
| pH | (³) | (³) | (³) |

¹ kg/1,000 kkg (pounds per million pounds) of metal poured.
² These concentrations must be multiplied by the ratio of (1,320/x) where x is the actual normalized process wastewater flow (in gallons per 1,000 pounds of metal poured) for a specific plant.
³ Within the range of 7.0 to 10.0 at all times.

(f) Melting Furnace Scrubber Operations.

§ 464.25

40 CFR Ch. I (7-1-04 Edition)

NSPS

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|--|-----------------------------|
| | kg/62.3 million Sm ³ (pounds per billion SCF) of air scrubbed | |
| Copper (T) | 1.81 | 0.988 |
| Lead (T) | 1.25 | 0.612 |
| Zinc (T) | 1.79 | 0.673 |
| Total phenols | 2.02 | 0.706 |
| Oil and grease | 70.6 | 23.5 |
| TSS | 35.3 | 28.2 |
| pH | (¹) | (¹) |

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

| | Maximum for any 1 day | Maximum for monthly average | Annual average ¹ |
|----------------------|-----------------------|-----------------------------|-----------------------------|
| | (mg/l) ² | (mg/l) ² | |
| Copper (T) | 0.77 | 0.42 | 0.4 |
| Lead (T) | 0.53 | 0.26 | 0.353 |
| Zinc (T) | 0.76 | 0.29 | 0.424 |
| Total phenols | 0.86 | 0.3 | 0.471 |
| Oil and grease | 30 | 10 | 11.8 |
| TSS | 15 | 12 | 6.12 |
| pH | (³) | (³) | (³) |

¹ kg/62.3 Sm³ (pounds per billion SCF) of air scrubbed.
² These concentrations must be multiplied by the ratio of (0.282/x) where x is the actual normalized process wastewater flow (in gallons per 1,000 SCF of air scrubbed) for a specific plant.
³ Within the range of 7.0 to 10.0 at all times.

(g) Mold Cooling Operations.

NSPS

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|--|-----------------------------|
| | kg/1,000 kkg (pounds per million pounds) of metal poured | |
| Copper (T) | 0.392 | 0.214 |
| Lead (T) | 0.27 | 0.132 |
| Zinc (T) | 0.387 | 0.148 |
| Oil and grease | 15.3 | 5.09 |
| TSS | 7.63 | 6.11 |
| pH | (¹) | (¹) |

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

| | Maximum for any 1 day | Maximum for monthly average | Annual average ¹ |
|----------------------|-----------------------|-----------------------------|-----------------------------|
| | (mg/l) ² | (mg/l) ² | |
| Copper (T) | 0.77 | 0.42 | 0.0865 |
| Lead (T) | 0.53 | 0.26 | 0.0763 |
| Zinc (T) | 0.76 | 0.29 | 0.0916 |
| Oil and grease | 30 | 10 | 2.54 |
| TSS | 15 | 12 | 1.32 |
| pH | (³) | (³) | (³) |

¹ kg/1,000 kkg (pounds per million pound) of metal poured.
² These concentrations must be multiplied by the ratio of (61/x) where x is the actual normalized process wastewater flow (in gallons per 1,000 pounds of metal poured) for a specific plant.
³ Within the range of 7.0 to 10.0 at all times.

[50 FR 45247, Oct. 30, 1985; 51 FR 21761, June 16, 1986]

§ 464.25 Pretreatment standards for existing sources.

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 achieve the following pretreatment standards for existing sources.

(a) Casting Quench Operations.

PSES

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|---|-----------------------------|
| | kg/1000 kkg (pounds per million pounds) of metal poured | |
| Copper (T) | 0.0307 | 0.0168 |
| Lead (T) | 0.0211 | 0.0104 |
| Zinc (T) | 0.0303 | 0.0116 |
| TTO | 0.0335 | 0.0109 |
| Oil and grease (for alternate monitoring) | 1.2 | 0.399 |

(b) Direct Chill Casting Operations.

PSES

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---------------------------------|--|-----------------------------|
| | kg/1,000 kkg (pounds per million pounds) of metal poured | |
| Copper (T) | 0.928 | 0.506 |
| Lead (T) | 0.639 | 0.314 |
| Zinc (T) | 0.916 | 0.35 |

(c) Dust Collection Scrubber Operations.

PSES

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
|---|--|-----------------------------|
| | kg/62.3 million Sm ³ (pounds per billion SCF) of air scrubbed | |
| Copper (T) | 0.552 | 0.301 |
| Lead (T) | 0.38 | 0.187 |
| Zinc (T) | 0.545 | 0.208 |
| Total phenols | 0.617 | 0.215 |
| TTO | 1.65 | 0.54 |
| Oil and grease (for alternate monitoring) | 21.5 | 7.18 |

(d) Grinding Scrubber Operations. No discharge of process wastewater pollutants to a POTW.

(e) Investment Casting.