

**Environmental Protection Agency**

**§ 464.44**

	Maximum for any 1 day	Maximum for monthly average	Annual average <sup>1</sup>
Copper (T) .....	0.77	0.42	0.0015
Lead (T) .....	0.53	0.26	0.0013
Zinc (T) .....	0.76	0.29	0.0016
Total phenols .....	0.86	0.3	0.0017

<sup>1</sup> kg/1,000 kkg (pounds per million pounds) of metal poured.  
<sup>2</sup> These concentrations must be multiplied by the ratio of (1.04/x) where x is the actual normalized process wastewater flow (in gallons per 1,000 pounds of metal poured) for a specific plant.

*(c) 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 <sup>3</sup> (pounds per billion SCF) of air scrubbed	
Copper (T) .....	1.56	0.852
Lead (T) .....	1.07	0.527
Zinc (T) .....	1.54	0.588
Total phenolse .....	1.74	0.608

	Maximum for any 1 day	Maximum for monthly average	Annual average <sup>1</sup>
	(mg/l) <sup>2</sup>	(mg/l) <sup>2</sup>	
Copper (T) .....	0.77	0.42	0.345
Lead (T) .....	0.53	0.26	0.304
Zinc (T) .....	0.76	0.29	0.365
Total phenols .....	0.86	0.3	0.406

<sup>1</sup> kg/62.3 million Sm<sup>3</sup> (pounds per billion SCF) of air scrubbed.

<sup>2</sup> These concentrations must be multiplied by the ratio of (0.243/x) where x is the actual normalized process wastewater flow (in gallons per 1,000 pounds of metal poured) for a specific plant.

*(d) Mold Cooling Operations.*

**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) .....	0.304	0.166
Lead (T) .....	0.209	0.103
Zinc (T) .....	0.3	0.114

	Maximum for any 1 day	Maximum for monthly average	Annual average <sup>1</sup>
	(mg/l) <sup>2</sup>	(mg/l) <sup>2</sup>	
Copper (T) .....	0.77	0.42	0.067
Lead (T) .....	0.53	0.26	0.0591
Zinc (T) .....	0.76	0.29	0.071

<sup>1</sup> kg/1,000 kkg (pounds per million pounds) of metal poured.

<sup>2</sup> These concentrations must be multiplied by the ratio of (47.3/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 21762, June 16, 1986]

**§ 464.44 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 Sm<sup>3</sup> 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) .....	0.0344	0.0187
Lead (T) .....	0.0237	0.0116
Zinc (T) .....	0.0339	0.0129
Oil and grease .....	1.34	0.446
TSS .....	0.67	0.536
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.0 to 10.0 at all times.

	Maximum for any 1 day	Maximum for monthly average	Annual average <sup>1</sup>
	(mg/l) <sup>2</sup>	(mg/l) <sup>2</sup>	
Copper (T) .....	0.77	0.42	0.0076
Lead (T) .....	0.53	0.26	0.0067
Zinc (T) .....	0.76	0.29	0.008
Oil and grease .....	30	10	0.223
TSS .....	15	12	0.116
pH .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

<sup>1</sup> kg/1,000 kkg (pounds per million pounds) of metal poured.  
<sup>2</sup> These concentrations must be multiplied by the ratio of (5.34/x) where x is the actual normalized process wastewater flow (in gallons per 1,000 pounds of metal poured) for a specific plant.

<sup>3</sup> Within the range of 7.0 to 10.0 at all times.

*(b) Die Casting Operations.*

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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) .....	0.0066	0.0036
Lead (T) .....	0.0046	0.0022
Zinc (T) .....	0.0066	0.0025
Total phenols .....	0.0074	0.0026
Oil and grease .....	0.259	0.0864
TSS .....	0.13	0.104
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.0 to 10.0 at all times.

	Maximum for any 1 day	Maximum for monthly average	Annual average <sup>1</sup>
	(mg/l) <sup>2</sup>	(mg/l) <sup>2</sup>	
Copper (T) .....	0.77	0.42	0.0015
Lead (T) .....	0.53	0.26	0.0013
Zinc (T) ..	0.76	0.29	0.0016
Total phenols	0.86	0.3	0.0017
Oil and grease	30	10	0.0432
TSS .....	15	12	0.0225
pH .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

<sup>1</sup>kg/1,000 kkg (pounds per million pounds) of metal poured.  
<sup>2</sup>These concentrations must be multiplied by the ratio of (1.04/x) where x is the actual normalized process wastewater flow (in gallons per 1,000 pounds of metal poured) for a specific plant.  
<sup>3</sup>Within the range of 7.0 to 10.0 at all times.

(c) *Melting Furnace Scrubber Operations.*

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	kg/62.3 million Sm <sup>3</sup> (pounds per billion SCF) of air scrubbed	
Copper (T) .....	1.56	0.852
Lead (T) .....	1.07	0.527
Zinc (T) .....	1.54	0.588
Total phenols .....	1.74	0.608
Oil and grease .....	60.8	20.3
TSS .....	30.4	24.3
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.0 to 10.0 at all times.

	Maximum for any 1 day	Maximum for monthly average	Annual average <sup>1</sup>
	(mg/l) <sup>2</sup>	(mg/l) <sup>2</sup>	
Copper (T) .....	0.77	0.42	0.345
Lead (T) .....	0.53	0.26	0.304
Zinc (T) ..	0.76	0.29	0.365
Total phenols	0.86	0.3	0.406
Oil and grease	30	10	10.1
TSS .....	15	12	5.27
pH .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

<sup>1</sup>kg/62.3 million Sm<sup>3</sup> (pounds per billion SCF) of air scrubbed.  
<sup>2</sup>These concentrations must be multiplied by the ratio of (0.243/x) where x is the actual normalized process wastewater flow (in gallons per 1,000 SCF of air scrubbed) for a specific plant.  
<sup>3</sup>Within the range of 7.0 to 10.0 at all times.

(d) *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) .....	0.304	0.166
Lead (T) .....	0.209	0.103
Zinc (T) .....	0.3	0.114
Oil and grease .....	11.8	3.94
TSS .....	5.91	4.73
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.0 to 10.0 at all times.

	Maximum for any 1 day	Maximum for monthly average	Annual average <sup>1</sup>
	(mg/l) <sup>2</sup>	(mg/l) <sup>2</sup>	
Copper (T) ...	0.77	0.42	0.067
Lead (T) .....	0.53	0.26	0.0591
Zinc (T) .....	0.76	0.29	0.071
Oil and grease .....	30	10	1.97
TSS .....	15	12	1.03
pH .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

<sup>1</sup>kg/1,000 kkg (pounds per million pounds) of metal poured.  
<sup>2</sup>These concentrations must be multiplied by the ratio of (47.3/x) where x is the actual normalized process wastewater flow (in gallons per 1,000 pounds of metal poured) for a specific plant.  
<sup>3</sup>Within the range of 7.0 to 10.0 at all times.

[50 FR 45247, Oct. 30, 1985; 51 FR 21762, June 16, 1986]

§ 464.45 **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.