Environmental Protection Agency

	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)	0.79	0.39	0.112
Zinc (T)	1.14	0.43	0.137
Oil and grease	30	10	2.54
TSS	38	15	5.09
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 (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 21760, June 16, 1986]

§ 464.23 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 125.30through 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 available technology economically achievable, 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, and total phenols. For non-continuous discharges, annual average mass limitations and maximum day and maximum for monthly average concentration (mg/l) limitations shall apply. Concentration limitations and annual average mass limitations shall only apply to non-continuous dischargers.

(a) Casting Quench Operations.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	kg/1,000 kkg million pou poured	(pounds per nds) of metal
Copper (T) Lead (T) Zinc (T)	0.0307 0.0211 0.0303	.0168 .0104 .0116

	Maximum for any 1 day	Maximum for monthly average	Annual av- erage 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
	•	•	

 $^{^1\,\}text{kg/1,000}$ kkg (pounds per million pounds) of metal poured. $^2\,\text{These}$ concentrations must be multiplied by the ratio of (4.8/x) where x is the actual normalized process waste-water flow (in gallons per 1,000 pounds of metal poured) for a specific plant.

(b) Direct Chill Casting Operations.

BAT EFFLUENT LIMITATIONS

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

	Maximum for any 1 day	Maximum for monthly average	Annual average ¹
Copper (T) Lead (T)	(mg/l) ² 0.77 0.53 0.76	(mg/l) ² 0.42 0.26 0.29	0.205 0.181 0.217

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 waste-water flow (in gallons per 1,000 pounds of metal poured) for a specific plant.

(c) Dust Collection Scrubber Operations.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	kg/62.3 million Sm³ (pounds p billion SCF) of air scrubbed	
Copper (T)	0.553 0.38 0.545 0.617	0.301 0.187 0.208 0.215

	Maximum for any 1 day	Maximum for monthly average	Annual average ¹
Copper (T) Lead (T) Zinc (T) Total phenols	(mg/l) ² 0.77 0.53 0.76 0.86	(mg/l) ² 0.42 0.26 0.29 0.3	0.122 0.108 0.129 0.144

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

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

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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 millio 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
Copper (T) Lead (T) Zinc (T)	(mg/l) ² 0.77 0.53 0.76	(mg/l) ² 0.42 0.26 0.29	1.87 1.65 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
		Sm ³ (pounds 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

(g) 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 poure	
Copper (T) Lead (T) Zinc (T)	0.392 0.27 0.387	0.214 0.132 0.148

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

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

[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 mil- lion 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.

^{&#}x27;kg/62.3 million 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.