

§ 464.22

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- 71. dimethyl phthalate
- 72. benzo(a)anthracene (1,2-benzanthracene)
- 74. 3,4-benzofluoranthene
- 75. benzo(k) fluoranthene
- 76. chrysene
- 77. acenaphthylene
- 78. anthracene
- 81. phenanthrene
- 84. pyrene

(3) Investment Casting (§ 464.25(e) and § 464.26(e)):

- 1. acenaphthene
- 22. para-chloro meta-cresol
- 23. chloroform (trichloromethane)
- 34. 2,4-dimethylphenol
- 55. naphthalene
- 58. 4-nitrophenol
- 64. pentachlorophenol
- 65. phenol
- 66. bis (2-ethylhexyl)phthalate
- 67. butyl benzyl phthalate
- 68. di-n-butyl phthalate
- 70. diethyl phthalate
- 71. dimethyl phthalate
- 72. benzo(a)anthracene (1,2-benzanthracene)
- 74. 3,4-benzofluoranthene
- 75. benzo(k) fluoranthene
- 76. chrysene
- 77. acenaphthylene
- 78. anthracene
- 81. Phenanthrene
- 84. pyrene

(4) Melting Furnace Scrubber (§ 464.25(f) and § 464.26(f)):

- 1. acenaphthene
- 22. para-chloro meta-cresol
- 23. chloroform (trichloromethane)
- 34. 2,4-dimethylphenol
- 55. naphthalene
- 58. 4-nitrophenol
- 64. pentachlorophenol
- 65. phenol
- 66. bis (2-ethylhexyl) phthalate
- 67. butyl benzyl phthalate
- 68. di-n-butyl phthalate
- 70. diethyl phthalate
- 71. dimethyl phthalate
- 72. benzo(a)anthracene (1,2-benzanthracene)
- 74. 3,4-benzofluoranthene
- 75. benzo(k) fluoranthene
- 76. chrysene
- 77. acenaphthylene
- 78. anthracene
- 81. phenanthrene
- 84. pyrene

(5) Mold Cooling (§ 464.25(g) and § 464.26(g)):

- 23. chloroform (trichloromethane)
- 64. pentachlorophenol
- 66. bis(2-ethylhexyl)phthalate
- 71. dimethyl phthalate

§ 464.22 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 limitations and annual average mass limitations shall only apply to non-continuous dischargers.

(a) Casting Quench Operations.

BPT 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)	0.0307	0.0168
Lead (T)	0.0315	0.0156
Zinc (T)	0.0455	0.0171
Oil and grease	1.2	0.399
TSS	1.52	0.598
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		
Copper (T)	0.77	0.42	0.0068
Lead (T)	0.79	0.39	0.0088
Zinc (T)	1.14	0.43	0.0108
Oil and grease	30	10	0.199
TSS	38	15	0.399
pH	(3)	(3)	(3)

¹ kg/1000 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.

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(b) Direct Chill Casting Operations.

BPT 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)	0.928	0.506
Lead (T)	0.952	0.47
Zinc (T)	1.37	0.518
Oil and grease	36.2	12.1
TSS	45.8	18.1
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		
Copper (T)	0.77	0.42	0.205
Lead (T)	0.79	0.39	0.265
Zinc (T)	1.14	0.43	0.326
Oil and grease	30	10	6.03
TSS	38	15	12.1
pH	(³)	(³)	(³)

¹ kg/1000 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.

BPT 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)	0.553	0.301
Lead (T)	0.567	0.28
Zinc (T)	0.818	0.309
Total phenols	0.617	0.215
Oil and grease	21.5	7.18
TSS	27.3	10.8
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		
Copper (T)	0.77	0.42	0.122
Lead (T)	0.79	0.39	0.158
Zinc (T)	1.14	0.43	0.194
Total phenols	0.86	0.3	0.144
Oil and grease	30	10	3.59
TSS	38	15	7.18
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.

BPT 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)	8.48	4.63
Lead (T)	8.7	4.3
Zinc (T)	12.6	4.74
Oil and grease	330	110
TSS	419	165
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		
Copper (T)	0.77	0.42	1.87
Lead (T)	0.79	0.39	2.42
Zinc (T)	1.14	0.43	2.97
Oil and grease	30	10	55.1
TSS	38	15	110
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.

BPT 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)	1.86	0.918
Zinc (T)	2.68	1.01
Total phenols	2.02	0.706
Oil and grease	70.6	23.5
TSS	89.4	35.3
pH	(¹)	(¹)

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

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	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)	0.79	0.39	0.518
Zinc (T)	1.14	0.43	0.635
Total phenols	0.86	0.3	0.467
Oil and grease	30	10	11.8
TSS	38	15	23.5
pH	(³)	(³)	(³)

¹ kg/62.3 million Sm³ (pound 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.

BPT 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)	0.402	0.199
Zinc (T)	0.58	0.219
Oil and grease	15.3	5.09
TSS	19.3	7.63
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)	0.79	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.

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

[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 125.30 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 appli-

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cation 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 (pounds per million pounds) of metal poured	
Copper (T)	0.0307	.0168
Lead (T)	0.0211	.0104
Zinc (T)	0.0303	.0116

	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

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.

(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 million pounds) of metal poured	
Copper (T)	0.928	0.506
Lead (T)	0.639	0.314
Zinc (T)	0.916	0.35