§464.17

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly aver-	
	kg/1,000 kkg (pounds per mil- lion pounds) of metal poured		
Copper (T)	8.48	4.63	
Lead (T)	8.7	4.3	
Zinc (T)	12.6	4.74	
тто	18.1	5.91	
Oil and grease (for alternate			
monitoring)	330	110	

(g) Melting Furnace Scrubber Operations.

Ρ	S	Ν	S
	~		-

Pollutant or pollutant property	Maximum for any 1 day Age	
	kg/62.3 million per billion scrubbed	Sm ³ (pounds SCF) of air
Copper (T) Lead (T) Zinc (T) Total Phenols TTO Oil and grease (for alternate	3.01 3.09 4.45 3.36 7.97	1.64 1.52 1.68 1.17 2.6
monitoring)	117	39.1

(h) Mold Cooling Operations.

PSNS

Pollutant or pollutant prop- erty	Maximum for any 1 day	Maximum for monthly aver- age	
	kg/1,000 kkg (pounds per million pounds) of metal poured		
Copper (T) Lead (T) Zinc (T) TTO Oil and grease (for alter-	0.297 0.305 0.44 0.935	0.162 0.151 0.166 0.304	
nate monitoring)	11.6	3.86	

§ 464.17 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best conventional pollutant control technology. [Reserved]

Subpart B—Copper Casting Subcategory

§464.20 Applicability; description of the copper 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 treat-

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

ment works resulting from copper casting operations as defined in §464.02(b).

§464.21 Specialized definitions.

For the purpose of this subpart:

(a) *Total Toxic Organics (TTO)*. TTO is a regulated parameter under PSES (§464.25) and PSNS (§464.26) for the copper 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 (§464.25(a) and §464.26(a)):

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

(2) Dust Collection Scrubbers (§464.25(c) and 464.26(c)):

- 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
- (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

Environmental Protection Agency

81. Phenanthrene

84. pyrene

Melting (4) 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-benzoflouranthene
- 75. benzo(k) flouranthene
- 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 aver- age	
	kg/1,000 kkg (pounds per mil lion pounds) of meta 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	
рН	(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
Copper (T) Lead (T)	(mg/l) ² 0.77 0.79	(mg/l) ² 0.42 0.39	0.0068
Oil and grease TSS	1.14 30 38 (³)	0.43 10 15 (³)	0.0108 0.199 0.399 (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 spe-dire of the second sec cific plant

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

(b) Direct Chill Casting Operations.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant prop- erty	Maximum for any 1 day	Maximum for monthly aver- age
	kg/1,000 kkg (pounds per million pounds) of metal poure	
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
рН	(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)	0.79	0.39	0.265
Zinc (T)	1.14	0.43	0.326
Oil and grease	30	10	6.03
TSS	38	15	12.1
рН	(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 spe-cific plant. ³ Within the range of 7.0 to 10.0 at all times.

§464.22