

**Environmental Protection Agency**

**§ 464.41**

**PSNS**

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) .....	0.0527	0.0291
Lead (T) .....	0.0964	0.0473
Zinc (T) .....	0.178	0.0673
TTO .....	0.0257	0.00838
Oil and grease (for alternate monitoring) .....	5.46	1.82

(2) Applicable to plants that are casting primarily steel, to plants that are casting primarily malleable iron where equal to or less than 3,557 tons of metal are poured per year, and to plants that are casting primarily gray iron where equal to or less than 1,784 tons of metal are poured per year.

**PSNS**

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) .....	0.0527	0.0291
Lead (T) .....	0.144	0.0709
Zinc (T) .....	0.267	0.102
TTO .....	0.0257	0.00838
Oil and grease (for alternate monitoring) .....	5.46	1.82

(i) *Wet Sand Reclamation Operations.*  
 (1) Applicable to plants that are casting primarily ductile iron, to plants that are casting primarily malleable iron where greater than 3,557 tons of metal are poured per year, and to plants that are casting primarily gray iron where greater than 1,784 tons of metal are poured per year.

**PSNS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	kg/1,000 kkg (pounds per million pounds) of sand reclaimed	
Copper (T) .....	0.217	0.12
Lead (T) .....	0.396	0.194
Zinc (T) .....	0.732	0.276
Total phenols .....	0.642	0.224
TTO .....	1.18	0.386
Oil and grease (for alternate monitoring) .....	22.4	7.47

(2) Applicable to plants that are casting primarily steel, to plants that are casting primarily malleable iron where equal to or less than 3,557 tons of metal are poured per year, and to plants that are casting primarily gray iron where equal to or less than 1,784 tons of metal are poured per year.

**PSNS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	kg/1,000 kkg (pounds per million pounds) of sand reclaimed	
Copper (T) .....	0.217	0.12
Lead (T) .....	0.59	0.291
Zinc (T) .....	1.10	0.418
Total phenols .....	0.642	0.224
TTO .....	1.18	0.386
Oil and grease (for alternate monitoring) .....	22.4	7.47

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

**Subpart D—Zinc Casting Subcategory**

**§ 464.40 Applicability; description of the zinc 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 treatment works resulting from zinc casting operations as defined in § 464.02(d).

**§ 464.41 Specialized definitions.**

For the purpose of this subpart:

(a) *Total Toxic Organics (TTO).* TTO is a regulated parameter under PSES (§ 464.45) and PSNS (§ 464.46) for the zinc 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 (§ 464.45(a) and § 464.46(a)):

- 21. 2,4,6-trichlorophenol
- 22. para-chloro meta-cresol
- 31. 2,4-dichlorophenol
- 34. 2,4-dimethylphenol
- 39. fluoranthene
- 44. methylene chloride (dichloromethane)
- 65. phenol

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- 66. bis(2-ethylhexyl) phthalate
- 68. di-n-butyl phthalate
- 70. diethyl phthalate
- 85. tetrachloroethylene

(2) Die Casting (§ 464.45(b) and § 464.46(b)):

- 1. acenaphthene
- 21. 2,4,6-trichlorophenol
- 22. para-chloro meta-cresol
- 24. 2-chlorophenol
- 34. 2,4-dimethylphenol
- 44. methylene chloride (dichloromethane)
- 55. naphthalene
- 65. phenol
- 66. bis(2-ethylhexyl) phthalate
- 68. di-n-butyl phthalate
- 70. diethyl phthalate
- 85. tetrachloroethylene
- 86. toluene
- 87. trichloroethylene

(3) Melting Furnace Scrubber (§ 464.45(c) and § 464.46(c)):

- 31. 2,4-dichlorophenol
- 34. 2,4-dimethylphenol
- 39. fluoranthene
- 44. methylene chloride (dichloromethane)
- 55. naphthalene
- 65. phenol
- 66. bis(2-ethylhexyl) phthalate
- 68. di-n-butyl phthalate
- 85. tetrachloroethylene
- 86. toluene
- 87. trichloroethylene

(4) Mold Cooling (§ 464.45(d) and § 464.46(d)):

- 21. 2,4,6-trichlorophenol
- 22. para-chloro meta-cresol
- 31. 2,4-dichlorophenol
- 34. 2,4-dimethylphenol
- 39. fluoranthene
- 44. methylene chloride (dichloromethane)
- 65. phenol
- 66. bis(2-ethylhexyl) phthalate
- 68. di-n-butyl phthalate
- 70. diethyl phthalate
- 85. tetrachloroethylene

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

**§ 464.42 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 Sm<sup>3</sup> 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 noncontinuous 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) .....	0.0344	0.0187
Lead (T) .....	0.0353	0.0174
Zinc (T) .....	0.0509	0.0192
Oil and grease .....	1.34	0.446
TSS .....	1.7	0.67
pH .....	(1)	(1)

<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>		
Copper (T) .....	0.77	0.42	0.0076
Lead (T) .....	0.79	0.39	0.0098
Zinc (T) .....	1.14	0.43	0.0121
Oil and grease .....	30	10	0.223
TSS .....	38	15	0.446
pH .....	(2)	(2)	(2)

<sup>1</sup> kg/1000 kkg (pound per million pounds) of metal poured.

<sup>2</sup> These concentrations must be multiplied by the ratio of (5.35/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.*