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(§464.15) and PSNS (§464.16) for the aluminum 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 (§464.15(b) and §464.16(b)):

4. benzene

- 21. 2,4,6-trichlorophenol
- 22. Para-chloro meta-cresol
- 23. chloroform (trichloromethane)
- 34. 2,4-dimethylphenol
- 39. fluoranthene
- 44. methylene chloride (dichloromethane)
- 65. phenol
- 66. bis(2-ethylhexyl) phthalate
- 67. butyl benzyl phthalate
- 84. pyrene
- 85. tetrachloroethylene
- 87. trichloroethylene

(2) Die Casting (§464.15(c) and §464.16(c)):

- acenaphthene
 benzene
- 7. chlorobenzene
- 11. 1,1,1-trichloroethane
- 21. 2,4,6-trichlorophenol
- 22. para-chloro meta-cresol
- 23. chloroform (trichloromethane)
- 34. 2,4-dimethylphenol
- 39. fluoranthene
- 44. methylene chloride (dichloromethane)
- 55. naphthalene
- 65. phenol
- 66. bis(2-ethylhexyl) phthalate
- 67. butyl benzyl phthalate
- 68. di-n-butyl phthalate
- 70. diethyl phthalate
- 72. benzo (a)anthracene (1,2-benzanthracene)
- 73. benzo (a)pyrene (3,4-benzopyrene)
- 76. chrysene
- 78. anthracene
- 80. fluorene
- 81. phenanthrene
- 84. pyrene
- 85. tetrachloroethylene
- 86. toluene

(3) Dust Collection Scrubber (§464.15(d) and §464.16(d)):

1. acenaphthene

- 21. 2,4,6-trichlorophenol
- 23. chloroform (trichloromethane)
- 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
- 73. benzo (a)pyrene (3,4-benzopyrene)
- 84. pyrene

(4) Investment Casting (§464.15(f) and §464.16(f)):

11. 1,1,1-trichloroethane

- 23. chloroform (trichloromethane)
- 44. methylene chloride (dichloromethane)
- 66. bis (2-ethylhexyl) phthalate
- 84. pyrene
- 85. tetrachloroethylene
- 87. trichloroethylene
- (5) Melting Furnace Scrubber (§464.15(g) and §464.16(g)):
- 1. acenaphthene
- 21. 2,4,6-trichlorophenol
- 23. chloroform (trichloromethane)
- 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
- 73. benzo (a)pyrene (3,4-benzopyrene)
- 84. pyrene
- (6) Mold Cooling (§464.15(h) and §464.16(h)):
- 4. benzene
- 21. 2,4,6-trichlorophenol
- 22. para-chloro meta-cresol
- 23. chloroform (trichloromethane)
- 34. 2,4-dimethylphenol
- 39. fluoranthene
- 44. methylene chloride
- 65. phenol
- 66. bis(2-ethylhexyl) phthalate
- 67. butyl benzyl phthalate
- 84. pyrene
- 85. tetrachloroethylene
- 87. trichloroethylene

§ 464.12 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

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non-continuous dischargers, annual average mass limitations and maximum day and maximum for monthly average concentration (mg/l) limitations shall apply. Concentration limitation and annual average mass limitation shall only apply to non-continuous dischargers.

(a) Casting Cleaning Operations.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly aver- age	
	kg/1,000 kkg (pounds per n lion pounds) of me poured		
Copper (T)	0.0771	0.0421	
Lead (T)			
Zinc (T)	. 0.114 0.04		
Oil & grease	. 3.0 1.0		
TSS			
рН	(1)	(1)	

¹ Within the range of 7.0 to 10.00 at all times.

	Maximum for any 1 day	Maximum for monthly average	Annual aver- age ¹
	(mg/l) ²	(mg/l) ²	
Copper (T)	0.77	0.42	0.017
Lead (T)	0.79	0.39	0.022
Zinc (T)	1.14	0.43	0.027
Oil & grease	30	10	0.501
TSS	38	15	1.0
рН	(³)	(3)	(3)

¹kg/1,000 kkg (pounds per million pounds) of metal poured. ²These concentrations must be multiplied by the ratio of (12/x) where x is the actual normalized process wastewater flow (in gallons per 1,000 pounds of metal poured) for a spe-cific plant. ³Within the range of 7.0 to 10.0 at all times.

(b) Casting Quench Operations.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day Aday		
	kg/1,000 kkg (pounds per mi lion pounds) of meta poured		
Copper (T)	0.0093 0.005		
Lead (T)	0.0096	0.0047	
Zinc (T)	0.0138	0.0052	
Oil & grease	0.363	0.121	
TSS	0.46 0.1		
рН	(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 av- erage ¹
	(mg/l) ²	(mg/l) ²	
Copper (T)	0.77	0.42	0.0021
Lead (T)	0.79	0.39	0.0027
Zinc (T)	1.14	0.43	0.0033
Oil & grease	30	10	0.0605
TSS	38	15	0.121
рН	(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 (1.45/x) where x is the actual normalized process wastewater flow (in gallons per 1,000 pounds of metal poured) for a specific plant.

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

(c) Die Casting Operations.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	, Maximum for any 1 day Maximum monthly av age		
	kg/1,000 kkg (pounds per m lion pounds) of me poured		
Copper (T)	0.0066	0.0036	
Lead (T)	0.0068	0.0034	
Zinc (T)	0.0098	0.0037	
Total Phenols	0.0074	0.0026	
Oil & Grease	0.259	0.0864	
TSS	0.33	0.13	
рН	. (1) (1)		

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

	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	0.0015
Lead (T)	0.79	0.39	0.0019
Zinc (T)	1.14	0.43	0.0023
Total Phenols	0.86	0.3	0.0017
Oil & Grease	30	10	0.0432
TSS	38	15	0.0864
рН	(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 (1.04/x) where x is the actual normalized process wastewater flow (in gallons per 1,000 pounds of metal poured) for a spe-cific plant.

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

(d) Dust Collection Scrubber Operations.

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BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly aver age	
	kg/62.3 million Sm ³ (pound per billion SCF) of a scrubbed		
Copper (T)	0.231	0.126	
Lead (T)	0.237	0.117	
Zinc (T)	0.343 0.		
Total Phenols	0.258	0.09	
Oil & Grease	9.01	3.0	
TSS	11.4	4.51	
рН	(1) (1)		

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

	Maximum for any 1 day	Max- imum for monthly average	Annual av- erage ¹
	(mg/l) ²	mg/l) ²	
Copper (T)	0.77	0.42	0.0511
Lead (T)	0.79	0.39	0.0661
Zinc (T)	1.14	0.43	0.0811
Total Phenols	0.86	0.3	0.0601
Oil & Grease	30	10	1.5
TSS	38	15	3.0
рН	(3)	(3)	(³)

¹ kg/62.3 million SM³ (pounds per billion SCF) of air scrubbed. ²These concentrations must be multiplied by the ratio of (0.036/x) where x is the actual normalized process waste-water 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.

(e) Grinding Scrubber Operations. No discharge of process wastewater pollutants to navigable waters.

(f) Investment Casting.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly aver- age	
	kg/1,000 kkg (pounds per mi lion pounds) of meta poured		
Copper (T)	. 8.48 4.6		
Lead (T)	8.7 4.3		
Zinc (T)	. 12.6 4.7		
Oil and grease	330 110		
TSS			
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	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
рН	(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 waste-water flow (in gallons per 1,000 pounds of metal poured) for a specific plant.

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

(g) Melting Furnace Scrubber Operations.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	y Maximum for any 1 day age	
	kg/62.3 million Sm ³ (po per billion SCF) o scrubbed	
Copper (T)	3.01	1.64
Lead (T)	3.09	1.52
Zinc (T)	4.45	1.68
Total phenols	3.36	1.17
Oil and grease	117	39.1
TSS	148	58.6
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 aver- age 1
	(mg/l) ²	(mg/l) ²	
Copper (T)	0.77	0.42	0.664
Lead (T)	0.79	0.39	0.859
Zinc (T)	1.14	0.43	1.05
Total phenols	0.86	0.3	0.781
Oil and grease	30	10	19.5
TSS	38	15	39.1
рН	(2)	(3)	(³)

¹kg/62.3 million Sm³ (pounds per billion SCF) of air scrubbed. ²These concentrations must be multiplied by the ratio of

² These concentrations must be multiplied by une ratio or (0.468/x) where x is the acutal normalized process waste-water 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.

(h) Mold Cooling Operations.

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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 metal poured		
Copper (T)	0.297	0.162	
Lead (T)	0.305	0.151	
Zinc (T)	0.44	0.166	
Oil and grease	11.6	3.86	
TSS	14.7	5.79	
рН	(1)	(1)	

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

	Maximum for any 1 day	Maximum for monthly aver- age	Annual av- erage 1
	(mg/l) 1	(mg/) 1	
Copper (T)	0.77	0.42	0.0656
Lead (T)	0.79	0.39	0.0849
Zinc (T)	1.14	0.43	0.104
Oil and grease	30	10	1.93
TSS	38	15	3.86
рН	(3)	(3)	(3)

¹ kg/1,000 kkg (pounds per million pounds) of metal ² These concentrations must be multiplied by the ratio of (46.3/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.

[50 FR 45247, Oct. 30, 1985; 51 FR 21760, June 16, 1986]

§464.13 Effluent limitations guidelines representing the degree of effluent reduction attainable by the applica-tion of the best available tech-nology 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 limita-tions 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 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 Cleaning Operations.

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BAT EFFLUENT LIMITATIONS

Pollutant or pollutant pro erty	p-			Maximum for monthly aver- age	
		kg/1,000 kkg (pounds per million pounds) of metal poure			
Copper (T)		0.0771			0.0421
Lead (T)		0.0791			0.039
Zinc (T)		0.114		0.0431	
	Maximum for any 1 day		Maxir for mo avera	nthly	Annual aver- age 1
		(mg/l) ²	(mg/	(I) ²	
Copper (T)		0.77		0.42	0.017
Lead (T)		0.79	(0.39	0.022
Zinc (T)		1.14	(0.43	0.027

 1 kg/1,000 kkg (pounds per million pounds) of metal poured. ²These concentrations must be multiplied by the ratio of (12/x) where x is the actual normalized process wastewater flow (in gallons per 1,000 pounds of metal poured) for a specific plant.

(b) Casting Quench Operations.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant proper				ximum for hthly aver- age
	kg/1,000 kkg (pounds per m lion pounds) of met poured			
Copper (T) Lead (T) Zinc (T)		0.0093 0.0096 0.0138		0.0051 0.0047 0.0052
	Aaximum or any 1 day	Maxim for mon	thly	Annual aver-

	day	average	aver- age 1
	(mg/l) ²	(mg/l) ²	
Copper (T)	0.77	0.42	0.0021
Lead (T)	0.79	0.39	0.0027
Zinc (T)	1.14	0.43	0.0033

¹kg/1,000 kkg (pounds per million pounds) of metal poured. ²These concentrations must be multiplied by the ratio of (1.45/x) where x is the actual normalized process wastewater flow (in gallons per 1,000 pounds of metal poured) for a spe-cific plant.

(c) Die Casting Operations.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day Aday		
	kg/1,000 kkg (pounds per mil lion pounds) of meta poured		
Copper (T)	0.0066	0.0036	
Lead (T)	0.0068	0.0034	
Zinc (T)	0.0098	0.0037	
Total Phenols	0.0074	0.0026	