

Environmental Protection Agency

§ 421.24

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of aluminum produced from electrolytic reduction	
Benzo(a)pyrene	0.045	0.021
Antimony	2.588	1.153
Nickel .....	.738	.496
Aluminum	8.194	3.634
Fluoride	79.790	35.400

(o) Subpart B—Degassing Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of aluminum produced from electrolytic reduction	
Benzo(a)pyrene	(¹)	(¹)
Antimony	5.036	2.244
Nickel	1.435	.965
Aluminum	15.940	7.071
Fluoride	155.300	68.880

¹ There shall be no discharge allowance for this pollutant.

(p) Subpart B—Pot Repair and Pot Soaking.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of aluminum produced from electrolytic reduction	
Benzo(a)pyrene .....	.000	.000
Antimony .....	.000	.000
Nickel .....	.000	.000
Aluminum .....	.000	.000
Fluoride .....	.000	.000

(q) Subpart B—Direct Chill Casting Contact Cooling.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of aluminum product from direct chill casting	
Benzo(a)pyrene	(¹)	(¹)
Antimony	2.565	1.143
Nickel .....	.731	.492

BAT EFFLUENT LIMITATIONS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Aluminum	8.120	3.602
Fluoride	79.080	35.090

¹ There shall be no discharge allowance for this pollutant.

(r) Subpart B—Continuous Rod Casting Contact Cooling.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of aluminum product from rod casting	
Benzo(a)pyrene	(¹)	(¹)
Antimony .....	.201	.089
Nickel .....	.057	.038
Aluminum .....	.636	.282
Fluoride	6.188	2.746

¹ There shall be no discharge allowance for this pollutant.

(s) Subpart B—Stationary Casting or Shot Casting Contact Cooling.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of aluminum product from stationary casting or shot casting	
Benzo(a)pyrene .....	.000	.000
Antimony .....	.000	.000
Nickel .....	.000	.000
Aluminum .....	.000	.000
Fluoride .....	.000	.000

[49 FR 8792, Mar. 8, 1984, as amended at 52 FR 25556, July 7, 1987]

§ 421.24 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Subpart B—Anode and Cathode Paste Plant Wet Air.

POLLUTION CONTROL—NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of paste produced	
Benzo(a)pyrene000	.000
Antimony000	.000

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POLLUTION CONTROL—NSPS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Nickel .....	.000	.000
Aluminum .....	.000	.000
Fluoride .....	.000	.000
Oil and grease .....	.000	.000
Total suspended solids .....	.000	.000
pH	(¹)	(¹)

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

(b) Subpart B—Anode Contact Cooling and Briquette Quenching.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of anodes cast	
Benzo(a)pyrene	0.007	0.003
Antimony .....	.403	.180
Nickel .....	.115	.077
Aluminum	1.277	.566
Fluoride	12.440	5.518
Oil and grease	2.090	2.090
Total suspended solids	3.135	2.508
pH	(¹)	(¹)

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

(c) Subpart B—Anode Bake Plant Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of anodes baked	
Benzo(a)pyrene .....	.000	.....
Antimony .....	.000	.000
Nickel .....	.000	.000
Aluminum .....	.000	.000
Fluoride .....	.000	.000
Oil and grease .....	.000	.000
Total suspended solids .....	.000	.000
pH	(¹)	(¹)

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

(d) Subpart B—Cathode Reprocessing (Operated With Dry Potline Scrubbing and Not Commingled With Other Process or Nonprocess Waters).

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of cryolite recovered	
Benzo(a)pyrene	1.181	0.547

NSPS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Antimony	420.400	189.200
Cyanide	157.600	70.060
Nickel	80.570	35.030
Aluminum	273.200	122.600
Fluoride	29,430.000	13,310.000
Oil and grease	350.300	350.300
Total suspended solids	2,172.000	945.800
pH	(¹)	(¹)

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

(e) Subpart B—Cathode Reprocessing (Operated With Dry Potline Scrubbing and Commingled With Other Process or Nonprocess Waters).

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of cryolite recovered	
Benzo(a)pyrene	1.181	0.547
Antimony	67.610	30.120
Cyanide	157.600	70.060
Nickel	19.270	12.960
Aluminum	214.000	94.930
Fluoride	2,084.000	924.800
Oil and grease	350.300	350.300
Total suspended solids	2,172.000	945.800
pH	(¹)	(¹)

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

(f) Subpart B—Potline Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of aluminum produced from electrolytic reduction	
Benzo(a)pyrene .....	.000	.....
Antimony .....	.000	.000
Nickel .....	.000	.000
Aluminum .....	.000	.000
Fluoride .....	.000	.000
Oil and grease .....	.000	.000
Total suspended solids .....	.000	.000
pH	(¹)	(¹)

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

(g) Subpart B—Potroom Wet Air Pollution Control.

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NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of aluminum produced from electrolytic reduction	
Benzo(a)pyrene .....	.000	.000
Antimony .....	.000	.000
Nickel .....	.000	.000
Aluminum .....	.000	.000
Fluoride .....	.000	.000
Oil and grease .....	.000	.000
Total suspended solids .....	.000	.000
pH	(¹)	(¹)

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

(h) Subpart B—Potline SO₂ Emissions Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) aluminum produced from electrolytic reduction	
Benzo(a)pyrene	0.045	0.021
Antimony	2.588	1.153
Nickel .....	.738	.496
Aluminum	8.194	3.634
Fluoride	79.790	35.400
Oil and grease	13.410	13.410
Total suspended solids	20.120	16.090
pH	(¹)	(¹)

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

(i) Subpart B—Degassing Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of aluminum produced from electrolytic reduction	
Benzo(a)pyrene .....	.000	.000
Antimony .....	.000	.000
Nickel .....	.000	.000
Aluminum .....	.000	.000
Fluoride .....	.000	.000
Oil and grease .....	.000	.000
Total suspended solids .....	.000	.000
pH	(¹)	(¹)

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

(j) Subpart B—Pot Repair and Pot Soaking.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of aluminum produced from electrolytic reduction	
Benzo(a)pyrene .....	.000	.000
Antimony .....	.000	.000
Nickel .....	.000	.000
Aluminum .....	.000	.000
Fluoride .....	.000	.000
Oil and grease .....	.000	.000
Total suspended solids .....	.000	.000
pH	(¹)	(¹)

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

(k) Subpart B—Direct Chill Casting Contact Cooling.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of aluminum product from direct chill casting	
Benzo(a)pyrene	(¹)	(¹)
Antimony	2.565	1.143
Nickel .....	.731	.492
Aluminum	8.120	3.602
Fluoride	79.080	35.090
Oil and grease	13.290	13.290
Total suspended solids	19.940	15.950
pH	(²)	(²)

¹ There shall be no discharge allowance for this pollutant.
² The pH shall be maintained within the range of 7.0 to 10.0 at all times except for those situations when this waste is discharged separately and without commingling with any other waste-water in which case the pH shall be within the range of 6.0 to 10.0 at all times.

(l) Subpart B—Continuous Rod Casting Contact Cooling.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of aluminum product from rod casting	
Benzo(a)pyrene	(¹)	(¹)
Antimony .....	.201	.089
Nickel .....	.057	.038
Aluminum .....	.636	.282
Fluoride	6.188	2.746
Oil and grease	1.040	1.040
Total suspended solids	1.560	1.248
pH	(²)	(²)

¹ There shall be no discharge allowance for this pollutant.
² Within the range of 7.0 to 10.0 at all times.

(m) Subpart B—Stationary Casting or Shot Casting Contact Cooling.

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NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum product from stationary casting or shot casting	
Benzo(a)pyrene .....	.000	.....
Antimony .....	.000	.000
Nickel .....	.000	.000
Aluminum .....	.000	.000
Fluoride .....	.000	.000
Oil and grease .....	.000	.000
Total suspended solids .....	.000	.000
pH	(¹)	(¹)

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

[49 FR 8792, Mar. 8, 1984; 49 FR 26739, June 29, 1984, as amended at 52 FR 25558, July 7, 1987]

§ 421.25 [Reserved]

§ 421.26 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary aluminum process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart B—Anode and Cathode Paste Plant Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of paste produced	
Benzo(a)pyrene .....	.000	.....
Nickel .....	.000	.000
Fluoride .....	.000	.000

(b) Subpart B—Anode Contact Cooling and Briquette Quenching.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of anodes cast	
Benzo(a)pyrene	0.007	0.003
Nickel .....	.115	.077

PSNS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Fluoride	12.440	5.518

(c) Subpart B—Anode Bake Plant Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of anodes baked	
Benzo(a)pyrene .....	.000	.....
Nickel .....	.000	.000
Fluoride .....	.000	.000

(d) Subpart B—Cathode Reprocessing (Operated With Dry Potline Scrubbing and Not Commingled With Other Process or Nonprocess Waters).

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cryolite re-covered	
Benzo(a)pyrene	1.181	0.547
Cyanide	157.600	70.060
Nickel	80.570	35.030
Fluoride	29,430.000	13,310.000

(e) Subpart B—Cathode Reprocessing (Operated With Dry Potline Scrubbing and Commingled With Other Process or Nonprocess Waters).

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cryolite re-covered	
Benzo(a)pyrene	1.181	0.547
Cyanide	157.600	70.060
Nickel	19.270	12.960
Fluoride	2,084.000	924.800

(f) Subpart B—Potline Wet Air Pollution Control.