

§ 421.23

40 CFR Ch. I (7-1-03 Edition)

§ 421.23 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 shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

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

BAT EFFLUENT LIMITATIONS

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	0.005	0.002
Antimony .....	.263	.117
Nickel .....	.075	.050
Aluminum .....	.831	.369
Fluoride	8.092	3.591

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

BAT EFFLUENT LIMITATIONS

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
Antimony .....	.403	.180
Nickel .....	.115	.077
Aluminum	1.277	.566
Fluoride	12.440	5.518

(c) Subpart (B)—Anode Bake Plant Wet Air Pollution Control (Closed Top Ring Furnace).

BAT EFFLUENT LIMITATIONS

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	0.146	0.067
Antimony	8.346	3.719
Nickel	2.378	1.600
Aluminum	26.420	11.720

BAT EFFLUENT LIMITATIONS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Fluoride	257.300	114.200

(d) Subpart B—Anode Bake Plant Wet Air Pollution Control (Open Top Ring Furnace With Spray Tower Only).

BAT EFFLUENT LIMITATIONS

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	0.002	0.001
Antimony .....	.097	.043
Nickel .....	.028	.019
Aluminum .....	.306	.136
Fluoride	2.975	1.320

(e) Subpart B—Anode Bake Plant Wet Air Pollution Control (Open Top Ring Furnace With Wet Electrostatic Precipitator and Spray Tower).

BAT EFFLUENT LIMITATIONS

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	0.025	0.011
Antimony	1.409	.628
Nickel .....	.402	.270
Aluminum	4.461	1.979
Fluoride	43.440	19.270

(f) Subpart B—Anode Bake Plant Wet Air Pollution Control (Tunnel Kiln).

BAT EFFLUENT LIMITATIONS

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	0.038	0.018
Antimony	2.197	.979
Nickel .....	.626	.421
Aluminum	6.953	3.084
Fluoride	67.710	30.050

(g) Subpart B—Cathode Reprocessing (Operated With Dry Potline Scrubbing)

Environmental Protection Agency

§ 421.23

and Not Commingled With Other Process or Nonprocess Waters).

BAT EFFLUENT LIMITATIONS

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

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

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds 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

(i) Subpart B—Cathode Reprocessing (Operated With Wet Potline Scrubbing).

BAT EFFLUENT LIMITATIONS

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 .....	.000	.000
Antimony .....	.000	.000
Cyanide .....	.000	.000
Nickel .....	.000	.000
Aluminum .....	.000	.000
Fluoride .....	.000	.000

(j) Subpart B—Potline Wet Air Pollution Control (Operated Without Cathode Reprocessing).

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	0.028	0.013
Antimony	1.618	.721
Nickel .....	.461	.310
Aluminum	5.120	2.271
Fluoride	49.860	22.130

(k) Subpart B—Potline Wet Air Pollution Control (Operated With Cathode Reprocessing and Not Commingled With Other Process or Nonprocess Waters).

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	0.028	0.013
Antimony	10.060	4.525
Cyanide	3.771	1.676
Nickel	1.928	.838
Aluminum	6.537	2.933
Fluoride	703.900	318.500

(l) Potline Wet Air Pollution Control Cooperated With Cathode Reprocessing and Commingled With Other Process or Nonprocess Wastewaters).

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	0.028	0.013
Antimony	1.618	.721
Cyanide	3.771	1.676
Nickel	0.461	.310
Aluminum	5.120	2.271
Fluoride	49.860	22.130

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

§ 421.23

40 CFR Ch. I (7-1-03 Edition)

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	0.056	0.026
Antimony	3.204	1.428
Nickel .....	.913	.614
Aluminum	10.140	4.499
Fluoride	98.770	43.830

(n) Subpart B—Potline SO₂ Emissions 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	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	.....

BAT EFFLUENT LIMITATIONS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
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
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	.....
Antimony .....	.000	.000
Nickel .....	.000	.000
Aluminum .....	.000	.000
Fluoride .....	.000	.000

Environmental Protection Agency

§ 421.24

[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)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.

(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

NSPS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
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
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.