

§ 461.73

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

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cells produced	
	English units—pounds per 1,000,000 pounds of cells produced	
Chromium .....	0.57	0.23
Cyanide .....	0.38	0.16
Mercury .....	0.32	0.13
Nickel .....	2.48	1.64
Silver .....	0.53	0.22
Zinc .....	1.88	0.79
Manganese .....	0.88	0.37

(10) Subpart G—Silver Etch.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver processed	
	English units—pounds per 1,000,000 pounds of silver processed	
Chromium .....	3.27	1.34
Mercury .....	1.86	0.74
Silver .....	3.05	1.26
Zinc .....	10.86	4.54
Manganese .....	5.06	2.16

(11) Subpart G—Silver Peroxide Production.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver peroxide produced	
	English units—pounds per 1,000,000 pounds of silver peroxide produced	
Chromium .....	3.48	1.42
Mercury .....	1.98	0.79
Silver .....	3.24	1.34
Zinc .....	11.55	4.83
Manganese .....	5.38	2.29

(12) Subpart G—Silver Powder Production.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver powder produced	
	English units—pounds per 1,000,000 pounds of silver powder produced	
Chromium .....	1.41	0.58
Mercury .....	0.80	0.32
Silver .....	1.32	0.55
Zinc .....	4.69	1.96
Manganese .....	2.18	0.93

(b) There shall be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed above.

[49 FR 9134, Mar. 9, 1984; 49 FR 13879, Apr. 9, 1984]

§ 461.73 New source performance standards. (NSPS).

(a) The discharge of wastewater pollutants from any new source subject to this subpart shall not exceed the standards set forth below:

(1) Subpart G—Zinc Oxide Formed Anodes—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of zinc	
	English units—pounds per 1,000,000 pounds of zinc	
Chromium .....	4.55	1.97
Mercury .....	2.82	1.19
Silver .....	4.55	1.97
Zinc .....	0.87	0.39
Manganese .....	6.50	4.98
Oil and grease .....	216.7	216.7
TSS .....	325.0	260.0
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the limits of 7.5–10.0 at all times.

(2) Subpart G—Electrodeposited Anodes—NSPS.

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of zinc deposited	
	English units—pounds per 1,000,000 pounds of zinc deposited	
Chromium .....	45.09	19.54
Mercury .....	27.91	11.81
Silver .....	45.09	19.54
Zinc .....	8.59	3.86
Manganese .....	64.41	49.38
Oil and grease .....	2,147.00	2,147.00
TSS .....	3,220.50	2,576.40
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the limits of 7.5–10.0 at all times.

**(3) Subpart G—Silver Powder Formed Cathodes—NSPS.**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver applied	
	English units—pounds per 1,000,000 pounds of silver applied	
Chromium .....	6.24	2.70
Mercury .....	3.86	1.63
Silver .....	6.24	2.70
Zinc .....	1.19	0.53
Manganese .....	8.91	6.83
Oil and grease .....	297.00	297.00
TSS .....	445.5	356.40
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the limits of 7.5–10.0 at all times.

**(4) Subpart G—Silver Oxide Powder Formed Cathodes—NSPS.**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver applied	
	English units—pounds per 1,000,000 pounds of silver applied	
Chromium .....	4.17	1.81
Mercury .....	2.58	1.09
Silver .....	4.17	1.81
Zinc .....	0.79	0.36
Manganese .....	5.96	4.57
Oil and grease .....	198.5	198.5
TSS .....	297.8	238.2
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the limits of 7.5–10.0 at all times.

**(5) Subpart G—Silver Peroxide Cathodes—NSPS.**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver applied	
	English units—pounds per 1,000,000 pounds of silver applied	
Chromium .....	1.00	0.43
Mercury .....	0.62	0.26
Silver .....	1.00	0.43
Zinc .....	0.19	0.09
Manganese .....	1.43	1.09
Oil and grease .....	47.6	47.6
TSS .....	71.4	57.1
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the limits of 7.5–10.0 at all times.

**(6) Subpart G—Nickel Impregnated Cathodes—NSPS.**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of nickel applied	
	English units—pounds per 1,000,000 pounds of nickel applied	
Chromium .....	42.0	18.2
Mercury .....	26.0	11.0
Nickel .....	42.0	18.2
Silver .....	42.0	18.2
Zinc .....	8.0	3.6
Manganese .....	60.0	46.0
Oil and grease .....	2,000.0	2,000.0
TSS .....	3,000.0	2,400.00
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the limits of 7.5–10.0 at all times.

**(7) Subpart G—Miscellaneous Wastewater Streams—NSPS.**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cells produced	
	English units—pounds per 1,000,000 pounds of cells produced	
Chromium .....	0.27	0.12
Cyanide .....	0.039	0.016
Mercury .....	0.17	0.07
Nickel .....	0.27	0.12
Silver .....	0.27	0.12
Zinc .....	0.05	0.02
Manganese .....	0.39	0.30
Oil and grease .....	12.90	12.90
TSS .....	19.35	15.48
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the limits of 7.5–10.0 at all times.

**(8) Subpart G—Silver Etch—NSPS.**

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver processed	
	English units—pounds per 1,000,000 pounds of silver processed	
Chromium .....	1.56	0.68
Mercury .....	0.97	0.41
Silver .....	1.56	0.68
Zinc .....	0.30	0.13
Manganese .....	2.23	1.71
Oil and grease .....	74.40	74.40
TSS .....	111.60	89.28
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the limits of 7.5–10.0 at all times.

(9) Subpart G—Silver Peroxide Production—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver peroxide produced	
	English units—pounds per 1,000,000 pounds of silver peroxide produced	
Chromium .....	1.66	0.72
Mercury .....	1.03	0.44
Silver .....	1.66	0.72
Zinc .....	0.32	0.14
Manganese .....	2.37	1.82
Oil and grease .....	79.10	79.10
TSS .....	118.65	94.92
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the limits of 7.5–10.0 at all times.

(10) Subpart G—Silver Powder Production—NSPS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver powder produced	
	English units—pounds per 1,000,000 pounds of silver powder produced	
Chromium .....	0.67	0.29
Mercury .....	0.42	0.18
Silver .....	0.67	0.29
Zinc .....	0.13	0.06
Manganese .....	0.96	0.74
Oil and grease .....	32.10	32.10
TSS .....	48.15	38.52
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the limits of 7.5–10.0 at all times.

(b) There shall be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed above.

§ 461.74 Pretreatment standards for existing sources (PSES).

(a) Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart that introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources:

(1) Subpart G—Wet Amalgamated Powder Anode—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of zinc	
	English units—pounds per 1,000,000 pounds of zinc	
Chromium .....	0.24	0.099
Mercury .....	0.14	0.055
Silver .....	0.23	0.093
Zinc .....	0.80	0.34
Manganese .....	0.37	0.16

(2) Subpart G—Gelled Amalgam Anodes—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of zinc	
	English units—pounds per 1,000,000 pounds of zinc	
Chromium .....	0.030	0.12
Mercury .....	0.017	0.006
Silver .....	0.028	0.012
Zinc .....	0.099	0.042
Manganese .....	0.046	0.020

(3) Subpart G—Zinc Oxide Formed Anodes—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of zinc	
	English units—pounds per 1,000,000 pounds of zinc	
Chromium .....	9.53	3.90
Mercury .....	5.42	2.17
Silver .....	8.89	3.68
Zinc .....	31.64	13.22
Manganese .....	14.74	6.28

(4) Subpart G—Electrodeposited Anodes—PSES.