Chapter NR 255

BATTERY MANUFACTURING

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	Applicability; description of the lead subcategory. Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control tech-	NR 255.72	Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
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Subchapter I — General Provisions

NR 255.01 Purpose. The purpose of this chapter is to establish effluent limitations, standards of performance, and pretreatment standards for discharges of process wastes from the battery manufacturing category of point sources and its subcategories.

History: Cr. Register, November, 1987, No. 383, eff. 12-1-87.

NR 255.015 Applicability. This chapter applies to any battery manufacturing plant that discharges or may discharge a pollutant to waters of the state or that introduces pollutants into a publicly owned treatment works. Battery manufacturing operations subject to regulation under this chapter are not subject to regulation under chs. NR 260 and 261.

History: Cr. Register, November, 1987, No. 383, eff. 12-1-87.

- NR 255.02 General definitions. In addition to the definitions set forth in ch. NR 205 and s. NR 211.03, the following definitions apply to this chapter:
- (1) "Ancillary operations" means all of the operations specific to battery manufacturing and not included specifically within anode or cathode manufacture. Ancillary operations are primarily associated with battery assembly and chemical production of anode or cathode active materials.
- (2) "Battery" means a modular electric power source where part or all of the fuel is contained within the unit and electric power is generated directly from a chemical reaction rather than indirectly through a heat cycle engine. In this chapter, there is no differentiation between a single cell and a battery.
- (3) "Battery manufacturing operations" means all of the specific processes used to produce a battery including the manufacture of anodes and cathodes and associated ancillary operations. These manufacturing operations are excluded from regulation under any other point source category.

- (4) "Discharge allowance" means the amount of pollutant that a plant will be permitted to discharge measured by mg. per kg. of production unit. For purposes of this chapter, the allowances are specific to battery manufacturing operations.
- (5) "Existing source" means any point source, except a new source as defined in sub. (9), from which pollutants may be discharged either into the waters of the state or into a POTW.
- (6) "Leclanche type batteries" means zinc anode batteries with acid electrolyte.
- (7) "Miscellaneous wastewater streams" means the combined wastewater streams from the process operations within each of 4 subcategories: cadmium, lead, lithium, and zinc. If a plant has one of these wastewater streams, then the plant receives the entire miscellaneous wastewater stream allowance. The process operations for the cadmium subcategory are cell wash, electrolyte preparation, floor and equipment wash, and employe wash. The process operations for the lead subcategory are floor wash, wet air pollution control, battery repair, laboratory, hand wash, and respirator wash. The process operations for the lithium subcategory are floor and equipment wash, cell testing, and lithium scrap disposal. The process operations for the zinc subcategory are cell wash, electrolyte preparation, employe wash, reject cell handling, and floor and equipment wash.
 - (8) "NSPS" means new source performance standards.
- (9) "New source," as defined for NSPS and PSNS, means any point source from which pollutants may be discharged directly into the waters of the state or into a POTW, the construction of which commenced after November 10, 1982.
- (10) "PSES" means pretreatment standards for existing sources.
 - (11) "PSNS" means pretreatment standards for new sources.

- (12) "Plate soak" means the process operation of soaking or reacting lead subcategory battery plates, that are more than 2.5 mm. or 0.100 in. thick, in sulfuric acid.
- (13) "Trucked batteries" means batteries moved into or out of the plant by truck when the truck is actually washed in the plant to remove residues left in the truck from the batteries.

History: Cr. Register, November, 1987, No. 383, eff. 12–1–87.

NR 255.03 Monitoring and reporting requirements.

Compliance with the maximum monthly average effluent limitations and pretreatment standards listed in the tables for each regulated process is required regardless of the number of samples analyzed and averaged. The maximum monthly average effluent limitations and pretreatment standards listed in the tables for each regulated process shall be the basis for monthly average discharge limits in direct discharge permits and for pretreatment standards. **History:** Cr. Register, November, 1987, No. 383, eff. 12–1–87.

NR 255.04 Compliance date for PSES. The compliance date for pretreatment standards for existing sources is March 9, 1987.

History: Cr. Register, November, 1987, No. 383, eff. 12-1-87.

Subchapter II — Cadmium Subcategory

NR 255.10 Applicability; description of the cadmium subcategory. This subchapter applies to the discharge of pollutants to waters of the state and the introduction of pollutants into POTWs from manufacturing cadmium anode batteries. **History:** Cr. Register, November, 1987, No. 383, eff. 12–1–87.

NR 255.11 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available. (1) Except as provided in 40 CFR 125.30 to 125.32, any existing source subject to this subchapter shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of BPT:

Table 1
Pasted and Pressed Powder Anodes
BPT

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — n	ng/kg of cadmium
	English units — l cadmium	b/million lbs of
Cadmium	0.92	0.41
Nickel	5.18	3.43
Zinc	3.94	1.65
Cobalt	0.57	0.24
Oil and grease	54.00	32.40
TSS	111.00	52.65
pН	(1)	(1)

Within the range of 7.5 to 10.0 at all times.

Table 2 Electrodeposited Anodes BPT

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of cadmium
	English units -	 lb/million lbs of
	cadmium	
Cadmium	237.0	104.6
Nickel	1,338.2	885.2
Zinc	1,017.6	425.2
Cobalt	146.4	62.7
Oil and grease	13,940.0	8,364.0
TSS	28,577.0	13,592.0
pН	(1)	(1)

Within the range of 7.5 to 10.0 at all times.

Table 3 Impregnated Anodes BPT

	22.2	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of cadmium
	English units —	-lb/million lbs of cad-
	mium	
Cadmium	339.3	149.7
Nickel	1,916.2	1,267.5
Zinc	1,457.1	608.8
Cobalt	209.6	89.8
Oil and grease	19,960.0	11,976.0
TSS	40,918.0	19,461.0
pН	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

Table 4 Nickel Electrodeposited Cathodes BPT

	D1 1	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — applied	- mg/kg of nickel
	English units – nickel applied	– lb/million lbs of
Cadmium	193.5	85.4
Nickel	1,092.5	722.6
Zinc	830.7	347.1
Cobalt	119.5	51.2
Oil and grease	11,380.0	6,828.0
TSS	23,329.0	11,095.5
pН	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

Table 5 **Nickel Impregnated Cathodes** ВРТ

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — applied	- mg/kg of nickel
	English units – nickel applied	– lb/million lbs of
Cadmium	557.6	246.0
Nickel	3,148.8	2,082.8
Zinc	2,394.4	1,000.4
Cobalt	344.4	147.6
Oil and grease	32,800.0	19,680.0
TSS	67,240.0	31,980.0
pН	(1)	(1)

Within the range of 7.5 to 10.0 at all times.

Table 6 **Miscellaneous Wastewater Streams BPT**

	D1 1	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — produced	mg/kg of cells
	English units — produced	- lb/million lbs of cells
Cadmium	6.29	2.77
Nickel	35.54	23.50
Zinc	27.02	11.29
Cobalt	3.89	1.66
Oil and grease	370.20	222.12
TSS	758.91	360.94
pН	$(^{1})$	(1)

Within the range of 7.5 to 10.0 at all times.

Table 7 Cadmium Powder Production BPT

	DI I	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units – powder produc	– mg/kg of cadmium ed
	English units – cadmium powo	lb/million lbs of ler produced
Cadmium	22.34	9.86
Nickel	126.14	83.44
Zinc	95.92	40.08
Cobalt	13.80	5.91
Oil and grease	1,314.00	788.40
TSS	2,693.00	1,281.20
pH	(1)	$(^{1})$

Within the range of 7.5 to 10.0 at all times.

Table 8 **Silver Powder Production BPT**

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	
	Metric units — powder produc	mg/kg of silver ed
	English units – silver powder p	– lb/million lbs of produced
Cadmium	7.21	3.18
Nickel	40.70	26.92
Silver	8.69	3.61
Zinc	30.95	12.93
Cobalt	4.45	1.91
Oil and grease	424.00	254.40
TSS	869.20	413.40
pН	(1)	(1)

Within the range of 7.5 to 10.0 at all times.

Table 9 **Cadmium Hydroxide Production BPT**

POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units — used	mg/kg of cadmium
	English units — cadmium used	lb/million lbs of
Cadmium	0.31	0.14
Nickel	1.73	1.14
Zinc	1.31	0.55
Cobalt	0.19	0.08
Oil and grease	18.00	10.80
TSS	86.90	17.60
pH	$(^{1})$	$(^1)$

Within the range of 7.5 to 10.0 at all times.

Table 10 **Nickel Hydroxide Production BPT**

POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units —	mg/kg of nickel used
	English units -	 lb/million lbs of
	nickel used	
Cadmium	37.4	16.5
Nickel	211.2	139.7
Zinc	160.6	67.1
Cobalt	23.1	9.9
Oil and grease	2,200.0	1,320.0
TSS	4,510.0	2,145.0
pН	(1)	(1)

Within the range of 7.5 to 10.0 at all times.

(2) There may be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed in tables 1 to 10.

History: Cr. Register, November, 1987, No. 383, eff. 12–1–87; correction in (1) made under s. 13.92 (4) (b) 7., Stats., Register April 2013 No. 688.

NR 255.12 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable. (1) Except as provided in 40 CFR 125.30 to 125.32, any existing source subject to this subchapter shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of BAT:

Table 11 Electrodeposited Anodes BAT

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of cadmium
	English units — cadmium	- lb/million lbs of
Cadmium	11.95	5.27
Nickel	67.49	44.64
Zinc	51.32	21.44
Cobalt	7.38	3.16

Table 12 Impregnated Anodes or Nickel Impregnated Cathodes BAT

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — nickel applied	mg/kg of cadmium or
	English units — cadmium or nic	- lb/million lbs of kel applied
Cadmium	68.0	30.0
Nickel	384.0	254.0
Zinc	292.0	122.0
Cobalt	42.0	18.0

Table 13 Nickel Electrodeposited Cathodes BAT

	2.11	
POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	
Metric units — mg/kg of nickel applied		
	English units - nickel applied	— lb/million lbs of
Cadmium	11.22	4.95
Nickel	63.36	41.91
Zinc	48.18	20.13
Cobalt	6.93	2.97

Table 14 Miscellaneous Wastewater Streams BAT

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — mg/kg of cells produced	
	English units — produced	lb/million lbs of cells
Cadmium	0.79	0.35
Nickel	4.47	2.96
Zinc	3.40	1.42
Cobalt	0.49	0.21

Table 15 Cadmium Powder Production BAT

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — powder produce	mg/kg of cadmium d
	English units — cadmium powde	lb/million lbs of er produced
Cadmium	2.23	0.99
Nickel	12.61	8.34
Zinc	9.59	4.01
Cobalt	1.38	0.59

Table 16 Silver Powder Production BAT

POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units —	mg/kg of silver
	powder produce	ed
	English units —	- lb/million lbs of
	silver powder p	roduced
C 1 :		
Cadmium	1.09	0.48
Nickel	6.16	4.08
Silver	1.32	0.55
Zinc	4.69	1.96
Cobalt	0.67	0.29

Table 17 Cadmium Hydroxide Production BAT

	DAI	
POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units — used	mg/kg of cadmium
		lb/million lbs of
	cadmium used	
Cadmium	0.05	0.02
Nickel	0.27	0.18
Zinc	0.20	0.09
Cobalt	0.03	0.01

Table 18 **Nickel Hydroxide Production**

	DAI	
POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
Metric units — mg/kg of nickel used		
	English units — lb/million lbs of nickel used	
Cadmium	5.61	2.48
Nickel	31.68	20.96
Zinc	24.09	10.07
Cobalt	3.47	1.49

(2) There may be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed in tables 11 to 18.

History: Cr. Register, November, 1987, No. 383, eff. 12–1–87; correction in (1) made under s. 13.92 (4) (b) 7., Stats., Register April 2013 No. 688.

NR 255.13 New source performance standards.

(1) The discharge of wastewater pollutants from any new source subject to this subchapter may not exceed the following standards:

Table 19 **Electrodeposited Anodes** NSPS

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
' <u> </u>	Metric units —	mg/kg of cadmium
	English units — cadmium	- lb/million lbs of
Cadmium	7.03	2.81
Nickel	19.33	13.01
Zinc	35.85	14.76
Cobalt	4.92	2.46
Oil and grease	351.5	351.5
TSS	527.3	421.8
pH	(1)	(1)

Within the range of 7.5 to 10.0 at all times.

Table 20 **Impregnated Anodes or Nickel Impregnated Cathodes NSPS**

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — nickel applied	mg/kg of cadmium or
	English units – cadmium or nic	– lb/million lbs of ckel applied
Cadmium	40.0	16.0
Nickel	110.0	74.0
Zinc	204.0	84.0
Cobalt	28.0	14.0
Oil and grease	2,000.0	2,000.0
TSS	3,000.0	2,400.0
pН	$(^1)$	$(^1)$

Within the range of 7.5 to 10.0 at all times.

Nickel Electrodeposited Cathodes NSPS

NSI 5		
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
Metric units — mg/kg of nickel applied		mg/kg of nickel
	English units - nickel applied	— lb/million lbs of
Cadmium	6.60	2.64
Nickel	18.15	12.21
Zinc	33.66	13.86
Cobalt	4.62	2.31
Oil and grease	330.0	330.0
TSS	495.0	396.0
pН	(1)	(1)

Within the range of 7.5 to 10.0 at all times.

Table 22 **Miscellaneous Wastewater Streams NSPS**

	1461 6	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — produced	mg/kg of cells
	English units — produced	lb/million lbs of cells
Cadmium	0.47	0.19
Nickel	1.28	0.86
Zinc	2.38	0.98
Cobalt	0.33	0.16
Oil and grease	23.3	23.3
TSS	35.0	28.0
pН	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

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Table 23 Cadmium Powder Production NSPS

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — powder produce	mg/kg of cadmium d
	English units — cadmium powde	lb/million lbs of er produced
Cadmium	1.31	0.53
Nickel	3.61	2.43
Zinc	6.70	2.76
Cobalt	0.92	0.46
Oil and grease	65.70	65.70
TSS	98.55	78.84
pН	$(^1)$	(1)

Within the range of 7.5 to 10.0 at all times.

Table 24 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 — silver powder p	- lb/million lbs of roduced
Cadmium	0.64	0.26
Nickel	1.77	1.19
Silver	0.93	0.39
Zinc	3.27	1.35
Cobalt	0.45	0.22
Oil and grease	32.10	32.10
TSS	48.15	38.52
pH	(1)	(1)

Within the range of 7.5 to 10.0 at all times.

Table 25
Cadmium Hydroxide Production
NSPS

	1131 3	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — used	mg/kg of cadmium
	English units — cadmium used	- lb/million lbs of
Cadmium	0.028	0.011
Nickel	0.077	0.051
Zinc	0.142	0.058
Cobalt	0.019	0.009
Oil and grease	1.40	1.40
TSS	2.10	1.68
pН	(1)	(1)

 $^{^{1}}$ Within the range of 7.5 to 10.0 at all times.

Table 26 Nickel Hydroxide Production NSPS

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of nickel used
	English units - nickel used	— lb/million lbs of
Cadmium	3.30	1.32
Nickel	9.08	6.11
Zinc	16.83	6.93
Cobalt	2.31	1.16
Oil and grease	165.0	165.0
TSS	247.5	198.0
рН	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(2) There may be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed in tables 19 to 26.

History: Cr. Register, November, 1987, No. 383, eff. 12-1-87.

NR 255.14 Pretreatment standards for existing sources. (1) Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subchapter that introduces pollutants into a POTW shall comply with 40 CFR Part 403 and achieve the following pretreatment standards for existing sources:

Table 27
Electrodeposited Anodes
PSES

	IBLB	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of cadmium
	English units — cadmium	- lb/million lbs of
Cadmium	11.95	5.27
Nickel	67.49	44.64
Zinc	51.32	21.44
Cobalt	7.38	3.16

Table 28 Impregnated Anodes or Nickel Impregnated Cathodes PSES

	ISES	
POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units — r nickel applied	ng/kg of cadmium or
	English units — lb/million lbs of cad-	
	mium or nickel applied	
Cadmium	68.0	30.0
Nickel	384.0	254.0
Zinc	292.0	122.0
Cobalt	42.0	18.0

Table 29 **Nickel Electrodeposited Cathodes PSES**

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POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — applied	mg/kg of nickel
	English units — lb/million lbs of nickel applied	
Cadmium	11.22	4.95
Nickel	63.36	41.91
Zinc	48.18	20.13
Cobalt	6.93	2.97

Table 30 **Miscellaneous Wastewater Streams PSES**

POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units — produced	mg/kg of cells
	English units — produced	lb/million lbs of cells
Cadmium	0.79	0.35
Nickel	4.47	2.96
Zinc	3.40	1.42
Cobalt	0.49	0.21

Table 31 **Cadmium Powder Production PSES**

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR	MAXIMUM FOR MONTHLY AVERAGE
FOLLUIANI FROFERI I		
	Metric units —	mg/kg of cadmium
	powder produced	
	English units — lb/million lbs of	
	cadmium powder produced	
Cadmium	2.23	0.99
Nickel	12.61	8.34
Zinc	9.59	4.01
Cobalt	1.38	0.59

Table 32 **Silver Powder Production PSES**

	IBEB	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — der produced	mg/kg of silver pow-
	English units — silver powder pr	lb/million lbs of roduced
Cadmium	1.09	0.48
Nickel	6.16	4.08
Silver	1.32	0.55
Zinc	4.69	1.96
Cobalt	0.67	0.29

Table 33 **Cadmium Hydroxide Production PSES**

POLLUTANT OR POLLUTANT PROPERTY		MAXIMUM FOR MONTHLY AVERAGE
	Metric units — 1 used	ng/kg of cadmium
	English units — l cadmium used	b/million lbs of
Cadmium	0.05	0.02
Nickel	0.27	0.18
Zinc	0.20	0.09
Cobalt	0.03	0.012

Table 34 **Nickel Hydroxide Production PSES**

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of nickel used
	English units -	 lb/million lbs of
	nickel used	
Cadmium	5.61	2.48
Nickel	31.68	20.96
Zinc	24.09	10.07
Cobalt	3.47	1.49

(2) There may be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed in tables 27 to 34.

History: Cr. Register, November, 1987, No. 383, eff. 12–1–87; correction in (1) made under s. 13.92 (4) (b) 7., Stats., Register April 2013 No. 688.

NR 255.15 Pretreatment standards for new sources. (1) Except as provided in 40 CFR 403.7, any new source subject to this subchapter that introduces pollutants into a POTW shall comply with 40 CFR Part 403 and achieve the following pretreatment standards for new sources:

Table 35 **Electrodeposited Anodes PSNS**

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of cadmium
	English units — cadmium	- lb/million lbs of
Cadmium	7.03	2.81
Nickel	19.33	13.01
Zinc	35.85	14.76
Cobalt	4.92	2.46

	FSINS	
POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units —	mg/kg of cadmium or
	nickel applied	
	English units — lb/million lbs of	
	cadmium or nickel applied	
Cadmium	40.0	16.0
Nickel	110.0	74.0
Zinc	204.0	84.0
Cobalt	28.0	14.0

Table 37 **Nickel Electrodeposited Cathodes PSNS**

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — mg/kg of nickel applied English units — lb/million lbs of nickel applied	
Cadmium	6.60	2.64
Nickel	18.15	12.21
Zinc	33.66	13.86
Cobalt	4.62	2.31

Table 38 **Miscellaneous Wastewater Streams PSNS**

POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units — duced	mg/kg of cells pro-
	English units — produced	lb/million lbs of cells
Cadmium	0.47	0.19
Nickel	1.28	0.86
Zinc	2.38	0.96
Cobalt	0.33	0.16

Table 39 **Cadmium Powder Production PSNS**

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — powder produce	mg/kg of cadmium d
	English units — lb/million lbs of cadmium powder produced	
Cadmium	1.31	0.53
Nickel	3.61	2.43
Zinc	6.70	2.76
Cobalt	0.92	0.46

Table 40 **Silver Powder Production PSNS**

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POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — mg/kg of silver powder produced English units — lb/million lbs of silver powder produced	
Cadmium	0.64	0.26
Nickel	1.77	1.19
Silver	0.93	0.39
Zinc	3.27	1.35
Cobalt	0.45	0.22

Table 41 **Cadmium Hydroxide Production PSNS**

	1 5115	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — used	mg/kg of cadmium
	English units — cadmium used	-lb/million lbs of
Cadmium	0.028	0.011
Nickel	0.077	0.051
Zinc	0.142	0.058
Cobalt	0.019	0.009

Table 42 **Nickel Hydroxide Production PSNS**

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of nickel used
		lb/million lbs of
	nickel used	
Cadmium	3.30	1.32
Nickel	9.08	6.11
Zinc	16.83	6.93
Cobalt	2.31	1.16

(2) There may be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed in tables 35 to 42.

History: Cr. Register, November, 1987, No. 383, eff. 12–1–87.

Subchapter III — Calcium Subcategory

NR 255.20 Applicability; description of the calcium subcategory. This subchapter applies to the discharge of pollutants to waters of the state and the introduction of pollutants into POTWs from manufacturing calcium anode batteries.

History: Cr. Register, November, 1987, No. 383, eff. 12–1–87.

NR 255.23 New source performance standards.

There may be no discharge allowance for process wastewater pollutants from any battery manufacturing new source subject to this subchapter.

History: Cr. Register, November, 1987, No. 383, eff. 12-1-87.

NR 255.25 Pretreatment standards for new sources. There may be no discharge allowance for process wastewater pollutants into a POTW from any battery manufacturing new source subject to this subchapter.

History: Cr. Register, November, 1987, No. 383, eff. 12-1-87.

Subchapter IV — Lead Subcategory

NR 255.30 Applicability; description of the lead subcategory. This subchapter applies to the discharge of pollutants to waters of the state and the introduction of pollutants into POTWs from manufacturing lead anode batteries.

History: Cr. Register, November, 1987, No. 383, eff. 12–1–87.

NR 255.31 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available. (1) Except as provided in 40 CFR 125.30 to 125.32, any existing source subject to this subchapter shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of BPT:

Table 43
Closed Formation — Double Fill, or Fill and Dump
BPT

	<i>D</i> 1 1	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units —	lb/million lbs of lead
	used	
Copper	0.86	0.45
Lead	0.19	0.090
Iron	0.54	0.27
Oil and grease	9.00	5.40
TSS	18.45	8.78
pH	(1)	(1)

 $^{^{\}rm l}$ Within the range of 7.5 to 10.0 at all times.

Table 44
Open Formation — Dehydrated
BPT

	22.2	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units —	lb/million lbs of lead
	used	
Copper	20.99	11.06
Lead	4.64	2.21
Iron	16.13	6.74
Oil and grease	221.00	132.60
TSS	453.05	215.47
pН	(1)	(1)
Within the range of 7.5 to 10.0	0 at all times.	

Table 45 Open Formation — Wet BPT

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE	
	Metric units —	Metric units — mg/kg of lead used	
	English units — used	lb/million lbs of lead	
Copper	0.10	0.05	
Lead	0.02	0.01	
Iron	0.06	0.03	
Oil and grease	1.06	0.64	
TSS	2.17	1.03	
pН	(1)	(1)	

¹ Within the range of 7.5 to 10.0 at all times.

Table 46 Plate Soak BPT

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units —	lb/million lbs of lead
	used	
Copper	0.040	0.020
Lead	0.009	0.004
Iron	0.030	0.010
Oil and grease	0.420	0.250
TSS	0.860	0.410
pН	(1)	(1)

Within the range of 7.5 to 10.0 at all times.

Table 47 Battery Wash with Detergent BPT

DOLL LITANT OD	MAXIMIM FOR	MAXIMIM FOR
POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units —	lb/million lbs of lead
	used	
Copper	1.71	0.90
Lead	0.38	0.18
Iron	1.08	0.55
Oil and grease	18.00	10.80
TSS	36.90	17.55
pН	(1)	(1)

Within the range of 7.5 to 10.0 at all times.

Table 48
Battery Wash — Water Only

	DF I	
POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units —	lb/million lbs of lead
	used	
Copper	1.12	0.59
Lead	0.25	0.12
Iron	0.71	0.36
Oil and grease	11.80	7.08
TSS	24.19	11.51
pН	(1)	(1)

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¹ Within the range of 7.5 to 10.0 at all times.

Table 49 Direct Chill Lead Casting RPT

	Dri	
POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units —	lb/million lbs of lead
	used	
Copper	0.00040	0.00020
Lead	0.00008	0.00004
Iron	0.00020	0.00010
Oil and grease	0.00400	0.00200
TSS	0.00800	0.00300
Нα	$(^1)$	$(^1)$

Within the range of 7.5 to 10.0 at all times.

Table 50 Mold Release Formulation BPT

	211	
POLLUTANT OR POLLUTANT PROPERT	MAXIMUM FOR Y ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units — used	- lb/million lbs of lead
Copper	0.011	0.006
Lead	0.002	0.001
Iron	0.007	0.004
Oil and grease	0.120	0.072
TSS	0.246	0.117
pН	(1)	(1)

Within the range of 7.5 to 10.0 at all times.

Table 51 Truck Wash BPT

Dr 1		
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — trucked batteries	- mg/kg of lead in
	English units — in trucked batter	lb/million lbs of lead ries
Copper	0.026	0.014
Lead	0.005	0.002
Iron	0.016	0.006
Oil and grease	0.280	0.168
TSS	0.574	0.273
pН	$(^{1})$	(1)

¹ Within the range of 7.5 to 10.0 at all times.

Table 52 Laundry BPT

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units —	lb/million lbs of lead
	used	
Copper	0.21	0.11
Lead	0.05	0.02
Iron	0.13	0.07
Oil and grease	2.18	1.31
TSS	4.47	2.13
pН	(1)	(1)

¹Within the range of 7.5 to 10.0 at all times.

Table 53 Miscellaneous Wastewater Streams BPT

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units —	lb/million lbs of lead
	used	
Copper	0.81	0.43
Lead	0.18	0.09
Iron	0.51	0.26
Oil and grease	8.54	5.12
TSS	17.51	8.33
pН	(1)	(1)
_		

¹ Within the range of 7.5 to 10.0 at all times.

(2) There may be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed in tables 43 to 53.

History: Cr. Register, November, 1987, No. 383, eff. 12–1–87; correction in (1) made under s. 13.92 (4) (b) 7., Stats., Register April 2013 No. 688.

NR 255.32 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable. (1) Except as provided in 40 CFR 125.30 to 125.32, any existing source subject to this subchapter shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of BAT:

Table 54 Open Formation — Dehydrated **BAT**

POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units —	lb/million lbs of lead
	used	
Copper	3.19	1.68
Lead	0.71	0.34
Iron	2.02	1.02

Table 55 Open Formation — Wet BAT

	2211	
POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units —	lb/million lbs of lead
	used	
Copper	0.100	0.053
Lead	0.022	0.010
Iron	0.06	0.03

Table 56 Plate Soak **BAT**

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units — used	lb/million lbs of lead
Copper	0.039	0.021
Lead	0.008	0.004
Iron	0.030	0.010

Table 57 Battery Wash with Detergent BAT

	Dill	
POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
'	Metric units —	mg/kg of lead used
	English units —	lb/million lbs of lead
	used	
Copper	1.71	0.90
Lead	0.38	0.18
Iron	1.08	0.55

Table 58 **Direct Chill Lead Casting BAT**

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units — used	lb/million lbs of lead
Copper	0.0004	0.0002
Lead	0.00008	0.00004
Iron	0.0002	0.0001

Table 59 **Mold Release Formulation** BAT

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units —	- lb/million lbs of lead
	used	
Copper	0.011	0.006
Lead	0.002	0.001
Iron	0.007	0.003

Table 60 Truck Wash BAT

	BAI	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR MA ANY 1 DAY MO	AXIMUM FOR ONTHLY AVERAGE
	Metric units — n trucked batteries	ng/kg of lead in
	English units — lb/million lbs of lead in trucked batteries	
Copper	0.026	0.014
Lead	0.005	0.002
Iron	0.016	0.008

Table 61 Laundry

	BAT	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units — used	lb/million lbs of lead
Copper	0.21	0.11
Lead	0.05	0.02
Iron	0.13	0.07

Table 62 Miscellaneous Wastewater Streams BAT

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — mg/kg of lead used	
	English units — lb/million lbs of lead	
	used	
Copper	0.58	0.31
Lead	0.13	0.06
Iron	0.37	0.19

(2) There may be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed in tables 54 to 62.

History: Cr. Register, November, 1987, No. 383, eff. 12–1–87; correction in (1) made under s. 13.92 (4) (b) 7., Stats., Register April 2013 No. 688.

NR 255.33 New source performance standards.

(1) The discharge of wastewater pollutants from any new source subject to this subchapter may not exceed the following standards:

Table 63 Open Formation — Dehydrated NSPS

	Metric units — mg	Metric units — mg/kg of lead used	
	English units — lb/	million lbs of lead	
	used		
Copper	2.15	1.02	
Lead	0.47	0.21	
Iron	2.01	1.02	
Oil and grease	16.80	16.80	
TSS	25.20	20.16	
pН	(1)	(1)	

Within the range of 7.5 to 10.0 at all times.

Table 64
Open Formation — Wet
NSPS

	11010		
	Metric units — mg	Metric units — mg/kg of lead used	
	English units — lb/	English units — lb/million lbs of lead	
	used		
Copper	0.067	0.032	
Lead	0.014	0.006	
Iron	0.063	0.032	
Oil and grease	0.53	0.53	
TSS	0.80	0.64	
pН	(1)	(1)	

¹ Within the range of 7.5 to 10.0 at all times.

Table 65 Plate Soak NSPS

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units -	— mg/kg of lead used
	English uni	ts — lb/million lbs of
		lead used
Copper	0.026	0.012
Lead	0.005	0.002
Iron	0.025	0.012
Oil and grease	0.21	0.21
TSS	0.32	0.25
pН	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

Table 66 Battery Wash with Detergent NSPS

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units —	lb/million lbs of lead
	used	
Copper	1.152	0.549
Lead	0.252	0.117
Iron	1.08	0.55
Oil and grease	9.0	9.0
TSS	13.5	10.8
pН	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

Table 67 Direct Chill Lead Casting NSPS

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units — lead used	lb/million lbs of
Copper	0.000256	0.000122
Lead	0.000056	0.000026
Iron	0.000240	0.000122
Oil and grease	0.0020	0.0020
TSS	0.0030	0.0024
рН	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

Table 68 **Mold Release Formulation NSPS**

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units —	lb/million lbs of lead
	used	
Copper	0.0077	0.0037
Lead	0.0017	0.0008
Iron	0.0072	0.0037
Oil and grease	0.060	0.060
TSS	0.090	0.072
pН	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

Table 69 Truck Wash **NSPS**

	- 10 - 0	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units - trucked batterie	— mg/kg of lead in es
	English units — in trucked batte	- lb/million lbs of lead eries
Copper	0.006	0.003
Lead	0.001	0.0007
Iron	0.006	0.003
Oil and grease	0.050	0.050
TSS	0.075	0.060
pН	$(^{1})$	(1)

Within the range of 7.5 to 10.0 at all times.

Table 70 Laundry NCDC

	NSFS	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	C	· lb/million lbs of lead
	used	
Copper	0.14	0.07
Lead	0.03	0.01
Iron	0.13	0.07
Oil and grease	1.09	1.09
TSS	1.64	1.31
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

Table 71 Miscellaneous Wastewater Streams **NSPS**

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE	
	Metric units —	Metric units — mg/kg of lead used	
	English units —	lb/million lbs of lead	
	used		
Copper	0.39	0.19	
Lead	0.085	0.039	
Iron	0.37	0.19	
Oil and grease	3.07	3.07	
TSS	4.61	3.69	
pН	(1)	(1)	

¹ Within the range of 7.5 to 10.0 at all times.

(2) There may be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed in tables 63 to 71.

History: Cr. Register, November, 1987, No. 383, eff. 12–1–87.

NR 255.34 Pretreatment standards for existing sources. (1) Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subchapter that introduces pollutants into a POTW shall comply with 40 CFR Part 403 and achieve the following pretreatment standards for existing sources:

Table 72 Open Formation — Dehydrated PSES

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units — used	lb/million lbs of lead
Copper	3.19	1.68
Lead	0.71	0.34

Table 73 Open Formation — Wet **PSES**

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE	
	Metric units —	Metric units — mg/kg of lead used	
	English units — lb/million lbs of lead used		
Copper	0.100	0.053	
Lead	0.022	0.010	

Tabl	e 74
Plate	Soak
PS	FS

	1020	
POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units —	lb/million lbs of lead
	used	
Copper	0.039	0.021
Lead	0.008	0.004

Table 75 Battery Wash with Detergent PSES

	1020	
POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units — used	lb/million lbs of lead
Copper	1.71	0.90
Lead	0.38	0.18

Table 76 Direct Chill Lead Casting PSES

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
Metric units — mg/kg of lead used		
	English units — lb/million lbs of lead used	
Copper	0.0004	0.0002
Lead	0.00008	0.00004

Table 77 Mold Release Formulation PSES

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	
	Metric units —	mg/kg of lead used
	English units — used	lb/million lbs of lead
Copper	0.011	0.006
Lead	0.002	0.001

Table 78 Truck Wash PSES

POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units -	- mg/kg of lead in
	trucked batteries	S
	English units —	lb/million lbs of lead
	in trucked batter	
Copper	0.026	0.014
Lead	0.005	0.002

Table 79 Laundry PSES

POLLUTANT OR POLLUTANT PROPERTY		MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units —	- lb/million lbs of lead
	used	
Copper	0.21	0.11
Lead	0.05	0.02

Table 80 Miscellaneous Wastewater Streams PSES

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
		mg/kg of lead used - lb/million lbs of lead
Copper	0.58	0.31
Lead	0.13	0.06

(2) There may be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed in tables 72 to 80.

(3) In cases where battery employe shower wastewater containing concentrations of lead exceeding 0.20 mg/l is combined with process wastewaters prior to treatment, the control authority may, under and notwithstanding the provisions of s. NR 211.12, exercise its discretion and classify battery employe shower wastewater as an unregulated rather than a dilute (F_D) wastestream, for the purpose of applying the combined wastestream formula. Before the control authority may exercise its discretion to classify such a stream as an unregulated stream, the battery manufacturer must provide engineering, production, and sampling and analysis information sufficient to allow a determination by the control authority on how the stream should be classified.

History: Cr. Register, November, 1987, No. 383, eff. 12–1–87; correction in (1) made under s. 13.92 (4) (b) 7., Stats., Register April 2013 No. 688.

NR 255.35 Pretreatment standards for new sources. (1) Except as provided in 40 CFR 403.7, any new source subject to this subchapter that introduces pollutants into a POTW shall comply with 40 CFR Part 403 and achieve the following pretreatment standards for new sources:

Table 81 Open Formation — Dehydrated PSNS

POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units —	lb/million lbs of lead
	used	
Copper	2.15	1.02
Lead	0.47	0.21

Table 82 Open Formation — Wet PSNS

	PSNS	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units —	- lb/million lbs of lead
	used	
Copper	0.067	0.032
Lead	0.014	0.006
	Table 83 Plate Soak PSNS	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units —	-lb/million lbs of lead
	used	
Copper	0.026	0.012
Lead	0.005	0.002
-		<u> </u>

Table 84 Battery Wash with Detergent PSNS

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units — lb/million lbs of	
	lead used	
Copper	1.152	0.549
Lead	0.252	0.117

Table 85 Direct Chill Lead Casting PSNS

POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
		mg/kg of lead used - lb/million lbs of lead
Copper	0.000256	0.000122
Lead	0.000056	0.000026

Table 86 Mold Release Formulation PSNS

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units — lb/million lbs of lead	
	used	
Copper	0.007	0.0037
Lead	0.0017	0.0008

Table 87 Truck Wash PSNS

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
		mg/kg of lead in trucked batteries
	English units — lead in trucked	- lb/million lbs of batteries
Copper	0.006	0.003
Lead	0.001	0.0007
Table 88 Laundry PSNS		
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of lead used
	English units — used	lb/million lbs of lead
Copper	0.14	0.07
Lead	0.03	0.01

Table 89 Miscellaneous Wastewater Streams PSNS

	1 51 15	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
		mg/kg of lead used
		0 0
	English units — lb/million lbs of lead	
	used	
Copper	0.39	0.19
Lead	0.085	0.039

(2) There may be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed in tables 81 to 89.

History: Cr. Register, November, 1987, No. 383, eff. 12-1-87.

Subchapter V — Leclanche Subcategory

NR 255.40 Applicability; description of the Leclanche subcategory. This subchapter applies to the discharge of pollutants to waters of the state and the introduction of pollutants into POTWs from manufacturing Leclanche type batteries.

History: Cr. Register, November, 1987, No. 383, eff. 12–1–87.

NR 255.43 New source performance standards.

(1) The discharge of wastewater pollutants from any new source subject to this subchapter may not exceed the following standards:

Table 90 Foliar Battery Miscellaneous Wash NSPS

POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units — duced	mg/kg of cells pro-
	English units — produced	lb/million lbs of cells
Mercury	0.010	0.004
Zinc	0.067	0.030
Manganese	0.019	0.015
Oil and grease	0.66	0.66
TSS	0.99	0.79
pН	(1)	(1)

¹Within the range of 7.5 to 10.0 at all times.

(2) There may be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than the battery manufacturing operation listed in table 90.

History: Cr. Register, November, 1987, No. 383, eff. 12-1-87.

NR 255.44 Pretreatment standards for existing **sources.** (1) Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subchapter that introduces pollutants into a POTW shall comply with 40 CFR Part 403 and achieve the following pretreatment standards for existing sources:

Table 91 Foliar Battery Miscellaneous Wash **PSES**

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — mg/kg of cells produced	
	English units — lb/million lbs of cells produced	
Mercury	0.010	0.004
Zinc	0.067	0.030
Manganese	0.019	0.015

(2) There may be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than the battery manufacturing operation listed in table 91

History: Cr. Register, November, 1987, No. 383, eff. 12–1–87; correction in (1) made under s. 13.92 (4) (b) 7., Stats., Register April 2013 No. 688.

255.45 Pretreatment standards for new **sources.** (1) Except as provided in 40 CFR 403.7, any new source subject to this subchapter that introduces pollutants into a POTW shall comply with 40 CFR Part 403 and achieve the following pretreatment standards for new sources:

Table 92 Foliar Battery Miscellaneous Wash

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — mg/kg of cells produced	
	English units — lb/million lbs of cells produced	
Mercury	0.010	0.004
Zinc	0.067	0.030
Manganese	0.019	0.015

(2) There may be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than the battery manufacturing operation listed in table 92.

History: Cr. Register, November, 1987, No. 383, eff. 12–1–87.

Subchapter VI — Lithium Subcategory

NR 255.50 Applicability; description of the lithium subcategory. This subchapter applies to the discharge of pollutants to waters of the state and the introduction of pollutants into POTWs from manufacturing lithium anode batteries.

History: Cr. Register, November, 1987, No. 383, eff. 12–1–87.

NR 255.53 New source performance standards.

(1) The discharge of wastewater pollutants from any new source subject to this subchapter may not exceed the following standards:

Table 93 **Lead Iodide Cathodes NSPS**

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE	
	Metric units —	Metric units — mg/kg of lead	
	English units —	lb/million lbs of lead	
Chromium	23.34	9.46	
Lead	17.66	8.20	
Iron	75.70	38.48	
TSS	946.2	756.96	
pН	(1)	(1)	

¹ Within the range of 7.5 to 10.0 at all times.

Table 94 Iron Disulfide Cathodes **NSPS**

	- 1.5 - 5	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — fide	mg/kg of iron disul-
	English units — disulfide	lb/million lbs of iron
Chromium	2.79	1.13
Lead	2.11	0.96
Iron	9.05	4.60
TSS	113.1	90.5
pН	(1)	(1)

Within the range of 7.5 to 10.0 at all times.

Table 95 **Miscellaneous Wastewater Streams** NSPS

	1101 0	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — duced	mg/kg of cells pro-
	English units — produced	lb/million lbs of cells
Chromium	0.039	0.016
Lead	0.030	0.014
Iron	0.129	0.066
TSS	1.62	1.30
pН	(1)	(1)

Within the range of 7.5 to 10.0 at all times.

Table 96 Air Scrubbers NSPS

POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units — duced	mg/kg of cells pro-
	English units — produced	lb/million lbs of cells
TSS	434.0	207.0
pH	$(^{1})$	$(^{1})$

¹ Within the range of 7.5 to 10.0 at all times.

(2) There may be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed in tables 93 to

History: Cr. Register, November, 1987, No. 383, eff. 12-1-87.

NR 255.55 Pretreatment standards for new **sources.** (1) Except as provided in 40 CFR 403.7, any new source subject to this subchapter that introduces pollutants into a POTW shall comply with 40 CFR Part 403 and achieve the following pretreatment standards for new sources:

Table 97 **Lead Iodide Cathodes PSNS**

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of lead
	English units —	lb/million lbs of lead
Chromium	23.34	9.46
Lead	17.66	8.20

Table 98 **Iron Disulfide Cathodes PSNS**

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — disulfide	mg/kg of iron
	English units — disulfide	lb/million lbs of iron
Chromium	2.79	1.13
Lead	2.11	0.96

Table 99 **Miscellaneous Wastewater Streams PSNS**

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — produced	mg/kg of cells
	English units — lb/million lbs of cells produced	
Chromium	0.039	0.016
Lead	0.030	0.014

(2) There may be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed in tables 97 to

History: Cr. Register, November, 1987, No. 383, eff. 12-1-87.

Subchapter VII — Magnesium Subcategory

NR 255.60 Applicability; description of the magnesium subcategory. This subchapter applies to the discharge of pollutants to waters of the state and the introduction of pollutants into POTWs from manufacturing magnesium anode batteries. History: Cr. Register, November, 1987, No. 383, eff. 12-1-87.

NR 255.63 New source performance standards.

(1) The discharge of wastewater pollutants from any new source subject to this subchapter may not exceed the following standards:

Table 100 Silver Chloride Cathodes — Chemically Reduced NSPS

POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units — processed	mg/kg of silver
	English units — silver processed	lb/million lbs of
Lead	22.93	10.65
Silver	23.75	9.83
Iron	98.28	49.96
TSS	1,228.5	982.8
COD	4,095.0	1,999.0
pН	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

Table 101 Silver Chloride Cathodes — Electrolytic **NSPS**

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — processed	mg/kg of silver
	English units – silver processed	– lb/million lbs of d
Lead	40.6	18.9
Silver	42.1	17.4
Iron	174.0	86.5
TSS	2,175.0	1,740.0
COD	7,250.0	3,540.0
pН	$(^1)$	(1)
1		

¹ Within the range of 7.5 to 10.0 at all times.

Table 102 Cell Testing NCDC

	NSPS	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — produced	mg/kg of cells
	English units — produced	lb/million lbs of cells
Lead	19.5	7.89
Silver	15.3	6.31
Iron	63.1	32.1
TSS	789.0	631.2
COD	2,630.0	1,290.0
pН	(1)	(1)

Table 103
Floor and Equipment Wash

	NSFS	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — duced	mg/kg of cells pro-
	English units — produced	lb/million lbs of cells
Lead	0.026	0.012
Silver	0.027	0.011
Iron	0.112	0.057
COD	1.41	1.13
TSS	4.70	2.30
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

Table 104 Air Scrubber

	NSFS	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
POLLUTANT PROPERTY		
	Metric units — duced	mg/kg of cells pro-
	English units — produced	lb/million lbs of cells
TSS	8,467.0	4,030.0
pН	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(2) There may be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed in tables 100 to 104.

History: Cr. Register, November, 1987, No. 383, eff. 12–1–87.

NR 255.64 Pretreatment standards for existing sources. (1) Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subchapter that introduces pollutants into a POTW shall comply with 40 CFR Part 403 and achieve the following pretreatment standards for existing sources:

Table 105
Silver Chloride Cathodes — Chemically Reduced
PSES

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVER- AGE
	Metric units — processed	mg/kg of silver
	English units — silver processed	lb/million lbs of
Lead	1,032.36	491.60
Silver	1,007.78	417.86

Table 106 Silver Chloride Cathodes — Electrolytic PSES

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — processed	mg/kg of silver
	English units — silver processed	lb/million lbs of
Lead	60.9	29.0
Silver	59.5	24.7
	Table 107 Cell Testing PSES	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — produced	mg/kg of cells
	English units — produced	lb/million lbs of cells
T J	22.1	10.5
Lead	22.1	10.5

Table 108 Floor and Equipment Wash PSES

	rses	
POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units — produced	mg/kg of cells
	English units — produced	lb/million lbs of cells
Lead	0.039	0.018
Silver	0.038	0.105

(2) There may be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed in tables 105 to

History: Cr. Register, November, 1987, No. 383, eff. 12–1–87; correction in (1) made under s. 13.92 (4) (b) 7., Stats., Register April 2013 No. 688.

NR 255.65 Pretreatment standards for new sources. (1) Except as provided in 40 CFR 403.7, any new source subject to this subchapter that introduces pollutants into a POTW shall comply with 40 CFR Part 403 and achieve the following pretreatment standards for new sources:

¹ Within the range of 7.5 to 10.0 at all times.

Table 109 Silver Chloride Cathodes — Chemically Reduced **PSNS**

POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units —	mg/kg of silver pro-
	cessed	
	English units —	- lb/million lbs of sil-
	ver processed	
Lead	22.93	10.65
Silver	23.75	9.83

Table 110 Silver Chloride Cathodes — Electrolytic **PSNS**

	1 51 15	
POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units —	mg/kg of silver
	processed	
	English units —	- lb/million lbs of
	silver processed	
Lead	40.6	18.9
Silver	42.1	17.4

Table 111 Cell Testing PSNS

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — produced	mg/kg of cells
	English units — lb/million lbs of cells produced	
Lead	19.5	7.89
Silver	15.3	6.31

Table 112 Floor and Equipment Wash

	1 5115	
POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units — produced	mg/kg of cells
	English units — produced	lb/million lbs of cells
Lead	0.026	0.012
Silver	0.027	0.001

(2) There may be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed in tables 109 to

History: Cr. Register, November, 1987, No. 383, eff. 12-1-87.

Subchapter VIII — Zinc Subcategory

NR 255.70 Applicability; description of the zinc subcategory. This subchapter applies to the discharge of pollutants to waters of the state and the introduction of pollutants into POTWs from manufacturing zinc anode batteries.

History: Cr. Register, November, 1987, No. 383, eff. 12-1-87.

NR 255.71 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available. (1) Except as provided in 40 CFR 125.30 to 125.32, any existing source subject to this subchapter shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of BPT:

Table 113 Wet Amalgamated Powder Anodes **BPT**

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg zinc
	English units —	lb/million lbs of zinc
Chromium	1.67	0.68
Mercury	0.95	0.38
Silver	1.56	0.65
Zinc	5.55	2.32
Manganese	2.58	1.10
Oil and grease	76.0	45.6
TSS	155.8	74.1
pН	$(^{1})$	(1)

¹ Within the range of 7.5 to 10.0 at all times.

Table 114 **Gelled Amalgam Anodes BPT**

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of zinc
	English units —	lb/million lbs of zinc
Chromium	0.30	0.12
Mercury	0.17	0.07
Silver	0.28	0.12
Zinc	0.99	0.42
Manganese	0.46	0.20
Oil and grease	13.6	8.16
TSS	27.9	13.26
рН	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

Table 115 **Zinc Oxide, Formed Anodes BPT**

	22.2	
POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units —	mg/kg of zinc
	English units —	lb/million lbs of zinc
Chromium	62.9	25.7
Mercury	35.8	14.3
Silver	58.7	24.3
Zinc	208.8	87.2
Manganese	97.2	41.5
Oil and grease	2,860.0	1,716.0
TSS	5,863.0	2,789.0
pН	(1)	(1)

Table 116 Electrodeposited Anodes BPT

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — deposited	- mg/kg of zinc
	English units – deposited	- lb/million lbs of zinc
Chromium	1,404.0	574.0
Mercury	798.0	319.0
Silver	1,308.0	543.0
Zinc	4,657.0	1,948.0
Manganese	2,169.0	925.0
Oil and grease	63,800.0	38,280.0
TSS	130,700.0	62,210.0
pН	(1)	(1)

Within the range of 7.5 to 10.0 at all times.

Table 117 Silver Powder, Formed Cathodes BPT

POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units — applied	mg/kg of silver
	English units — silver applied	- lb/million lbs of
Chromium	86.2	35.3
Mercury	49.0	19.6
Silver	80.4	33.3
Zinc	286.2	119.6
Manganese	133.3	56.8
Oil and grease	3,920.0	2,350.0
TSS	8,036.0	3,822.0
pН	(1)	(1)

Within the range of 7.5 to 10.0 at all times.

Table 118 Silver Oxide Powder, Formed Cathodes

BPT		
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — applied	mg/kg of silver
	English units — silver applied	- lb/million lbs of
Chromium	57.7	23.6
Mercury	32.8	13.1
Silver	53.7	22.3
Zinc	191.3	79.9
Manganese	89.1	38.0
Oil and grease	2,620.0	1,570.0
TSS	5,370.0	2,554.0
pН	(1)	(1)

Within the range of 7.5 to 10.0 at all times.

Table 119 Silver Peroxide Cathodes BPT

MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
Metric units — applied	mg/kg of silver
English units — silver applied	- lb/million lbs of
13.8	5.65
7.85	3.14
12.9	5.34
45.8	19.2
21.4	9.11
628.0	377.0
1,287.0	612.0
(¹)	(1)
	ANY I DAY Metric units — applied English units — silver applied 13.8 7.85 12.9 45.8 21.4 628.0 1,287.0

¹ Within the range of 7.5 to 10.0 at all times.

Table 120 Nickel Impregnated Cathodes ВРТ

	DF I	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — applied	mg/kg of nickel
	English units - nickel applied	— lb/million lbs of
Chromium	721.6	295.2
Mercury	410.0	164.0
Nickel	3,149.0	2,083.0
Silver	672.4	279.0
Zinc	2,394.4	1,000.4
Manganese	1,115.2	475.6
Oil and grease	32,800.0	19,680.0
TSS	67,240.0	31,980.0
pН	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

Table 121 Miscellaneous Wastewater Streams

	DI I	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — produced	mg/kg of cells
	English units — produced	lb/million lbs of cells
Chromium	3.85	1.58
Cyanide	2.54	1.05
Mercury	2.19	0.68
Nickel	16.82	11.12
Silver	3.59	1.49
Zinc	12.79	5.34
Manganese	5.96	2.54
Oil and grease	175.20	105.12
TSS	359.16	170.82
pН	(1)	(1)

Within the range of 7.5 to 10.0 at all times.

¹ Within the range of 7.5 to 10.0 at all times.

Table 122 Silver Etch **BPT**

	D1 1	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — processed	mg/kg of silver
	English units — silver processed	lb/million lbs of
Chromium	21.6	8.84
Mercury	12.3	4.91
Silver	20.2	8.35
Zinc	71.7	30.0
Manganese	33.4	14.3
Oil and grease	982.0	589.2
TSS	2,013.1	957.5
pH	(1)	(1)

Within the range of 7.5 to 10.0 at all times.

Table 123 Silver Peroxide Production BPT

	DI I	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
TODE IN THE EXIT	Metric units — silver peroxide	mg/kg of silver in
		peroxide produced
Chromium	23.0	9.40
Mercury	13.1	5.22
Silver	21.4	8.88
Zinc	76.2	31.80
Manganese	35.5	15.10
Oil and grease	1,044.0	627.00
TSS	2,140.0	1,018.00
pН	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

Table 124 **Silver Powder Production BPT**

	21.1	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — mg/kg of silver powder produced	
	English units — silver powder p	- lb/million lbs of roduced
Chromium	9.33	3.82
Mercury	5.30	2.12
Silver	8.69	3.61
Zinc	30.95	12.93
Manganese	14.42	6.15
Oil and grease	424.0	254.40
TSS	869.0	413.40
pН	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

than those battery manufacturing operations listed in tables 113 to 124.

History: Cr. Register, November, 1987, No. 383, eff. 12–1–87; correction in (1) made under s. 13.92 (4) (b) 7., Stats., Register April 2013 No. 688.

NR 255.72 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable. (1) Except as provided in 40 CFR 125.30 to 125.32, any existing source subject to this subchapter shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of BAT:

Table 125 Wet Amalgamated Powder Anodes BAT

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — mg/kg of zinc	
	English units —	lb/million lbs of zinc
Chromium	0.24	0.099
Mercury	0.14	0.056
Silver	0.23	0.093
Zinc	0.80	0.34
Manganese	0.37	0.16

Table 126 Gelled Amalgam Anodes BAT

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of zinc
	English units —	lb/million lbs of zinc
Chromium	0.030	0.012
Mercury	0.017	0.007
Silver	0.028	0.012
Zinc	0.099	0.042
Manganese	0.046	0.020

Table 127 Zinc Oxide Formed Anodes BAT

	2111	
POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units —	mg/kg of zinc
	English units —	lb/million lbs 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

⁽²⁾ There may be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other

Table 128 Electrodeposited Anodes BAT

	2.11	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — deposited	mg/kg of zinc
	English units — deposited	lb/million lbs of zinc
Chromium	94.47	38.65
Mercury	53.68	21.47
Silver	88.03	36.50
Zinc	313.46	130.97
Manganese	146.00	62.26

Table 129 **Silver Powder Formed Cathodes BAT**

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — applied	mg/kg of silver
	English units — lb/million lbs of silver applied	
Chromium	13.07	5.35
Mercury	7.43	2.97
Silver	12.18	5.05
Zinc	43.36	18.12
Manganese	20.20	8.61

Table 130 **Silver Oxide Powder Formed Cathodes BAT**

	2.11	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — applied	mg/kg of silver
	English units — silver applied	- lb/million lbs of
Chromium	8.73	3.57
Mercury	4.96	1.99
Silver	8.14	3.37
Zinc	28.96	12.11
Manganese	13.50	5.76

Table 131 Silver Peroxide Cathodes **BAT**

	DAI	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — applied	mg/kg of silver
	English units — silver applied	lb/million lbs of
Chromium	2.09	0.87
Mercury	1.19	9.48
Silver	1.95	0.81
Zinc	6.95	2.90
Manganese	3.24	1.38

Table 132 Nickel Impregnated Cathodes BAT

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — mg/kg of nickel applied	
	English units - nickel applied	— lb/million lbs of
Chromium	88.0	36.0
Mercury	50.0	20.0
Nickel	384.0	254.0
Silver	82.0	34.0
Zinc	292.0	122.0
Manganese	136.0	58.0

Table 133 Miscellaneous Wastewater Streams BAT

	DIXI	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — produced	mg/kg of cells
	English units — produced	lb/million lbs of cells
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

Table 134 Silver Etch BAT

	BAI	
POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units — processed	mg/kg of silver
	English units — silver processed	lb/million lbs of
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

Table 135 Silver Peroxide Production

	DAI	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — silver peroxide	mg/kg of silver in produced
	C	- lb/million lbs of peroxide produced
Chromium	3.48	1.42
Mercury	1.96	0.79
Silver	3.24	1.34
Zinc	11.56	4.83
Manganese	5.36	2.29

Table 136 Silver Powder Production BAT

	D111	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —: der produced	mg/kg of silver pow-
	English units — silver powder pr	- lb/million lbs of roduced
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

(2) There may be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed in tables 125 to 136.

History: Cr. Register, November, 1987, No. 383, eff. 12–1–87; correction in (1) made under s. 13.92 (4) (b) 7., Stats., Register April 2013 No. 688.

NR 255.73 New source performance standards.

(1) The discharge of wastewater pollutants from any new source subject to this subchapter may not exceed the following standards:

Table 137 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 —	- lb/million lbs 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
pН	(1)	(1)

Within the range of 7.5 to 10.0 at all times.

Table 138 Electrodeposited Anodes NSPS

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — deposited	mg/kg of zinc
	English units — deposited	- lb/million lbs of zinc
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
pН	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

Table 139 Silver Powder Formed Cathodes NSPS

	11010	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — applied	mg/kg of silver
	English units — silver applied	- lb/million lbs of
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
pН	(1)	(1)
1 W/4: 4 10 () -4 -11 4:	· · · · · · · · · · · · · · · · · · ·

Within the range of 7.5 to 10.0 at all times.

Table 140 Silver Oxide Powder Formed Cathodes NSPS

	11010	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — applied	mg/kg of silver
	English units — silver applied	- lb/million lbs of
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
pН	(1)	(1)

Within the range of 7.5 to 10.0 at all times.

Table 141 Silver Peroxide Cathodes **NSPS**

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — applied	mg/kg of silver
	English units — silver applied	-lb/million lbs of
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	(1)	(1)

Within the range of 7.5 to 10.0 at all times.

Table 142 Nickel Impregnated Cathodes NSPS

	1101 5	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — applied	mg/kg of nickel
	English units nickel applied	— lb/million lbs of
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	2,400.0
pH	(1)	$(^1)$

Within the range of 7.5 to 10.0 at all times.

Table 143 Miscellaneous Wastewater Streams NSPS

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — produced	mg/kg of cells
	English units — produced	- lb/million lbs of cells
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
pН	(1)	(1)

Within the range of 7.5 to 10.0 at all times.

Table 144 Silver Etch **NSPS**

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — processed	mg/kg silver
	English units — silver processed	- lb/million lbs of
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
pН	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

Table 145 Silver Peroxide Production NSPS

NSI 5		
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — silver peroxide	mg/kg of silver in produced
		- lb/million lbs of 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	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

Table 146 Silver Powder Production NSPS

1101.0			
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE	
	Metric units — powder produce	2 2	
	English units — silver powder pr	lb/million lbs of roduced	
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	(1)	(1)	
Within the range of 7.5 to 10.0) at all times.		

¹

⁽²⁾ There may be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other

than those battery manufacturing operations listed in tables 137 to 146.

History: Cr. Register, November, 1987, No. 383, eff. 12-1-87.

NR 255.74 Pretreatment standards for existing sources. (1) Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subchapter that introduces pollutants into a POTW shall comply with 40 CFR Part 403 and achieve the following pretreatment standards for existing sources:

Table 147 Wet Amalgamated Powder Anode PSES

	IBLB	
POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY		MONTHLY AVERAGE
Metric units — mg/kg of zinc		
	English units — lb/million lbs 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

Table 148 Gelled Amalgam Anodes PSES

	ISES		
POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR	
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE	
	Metric units —	mg/kg of zinc	
	English units — lb/million lbs 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	

Table 149 Zinc Oxide Formed Anodes PSES

POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units —	mg/kg of zinc
	English units —	lb/million lbs 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

Table 150 Electrodeposited Anodes PSES

	IDED	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
Metric units — mg/kg of zinc deposited		
	English units — deposited	lb/million lbs of zinc
Chromium	94.47	38.65
Mercury	53.68	21.47
Silver	88.03	36.50
Zinc	313.46	130.97
Manganese	146.00	62.26

Table 151 Silver Powder Formed Cathodes PSES

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — mg/kg of silver applied	
	English units — silver applied	lb/million lbs of
Chromium	13.07	5.35
Mercury	7.43	2.97
Silver	12.18	5.05
Zinc	43.36	18.12
Manganese	20.20	8.61

Table 152 Silver Oxide Powder Formed Cathodes PSES

ISES		
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — applied	mg/kg of silver
	English units — silver applied	– lb/million lbs of
Chromium	8.73	3.57
Mercury	4.96	1.99
Silver	8.14	3.37
Zinc	28.98	12.11
Manganese	13.50	5.76

Table 153 Silver Peroxide Cathodes PSES

	I DED	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — applied	mg/kg of silver
	English units — silver applied	lb/million lbs of
Chromium	2.09	0.87
Mercury	1.19	0.48
Silver	1.95	0.81
Zinc	6.95	2.90
Manganese	3.24	1.38

Table 154 Nickel Impregnated Cathodes PSES

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — mg/kg of nickel applied	
	English units - nickel applied	— lb/million lbs of
Chromium	88.0	36.0
Mercury	50.0	20.0
Nickel	384.0	254.0
Silver	82.0	34.0
Zinc	292.0	122.0
Manganese	136.0	58.0

Table 155 Miscellaneous Wastewater Streams PSES

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — produced	mg/kg of cells
	English units — produced	-lb/million lbs of cells
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
	m 11 454	

Table 156 Silver Etch PSES

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — mg/kg of silver processed	
	English units — silver processed	lb/million lbs of
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

Table 157 Silver Peroxide Production PSES

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — mg/kg of silver in silver peroxide produced	
	English units — lb/million lbs of silver in 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

Table 158
Silver Powder Production
PSES

MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
Metric units — mg/kg of silver powder produced	
English units — silver powder pr	lb/million lbs of roduced
1.41	0.58
0.80	0.32
1.32	0.55
4.69	1.96
2.18	0.93
	ANY I DAY Metric units — powder produce English units — silver powder pr 1.41 0.80 1.32 4.69

(2) There may be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed in tables 147 to 158.

History: Cr. Register, November, 1987, No. 383, eff. 12–1–87; correction in (1) made under s. 13.92 (4) (b) 7., Stats., Register April 2013 No. 688.

NR 255.75 Pretreatment standards for new sources. (1) Except as provided in 40 CFR 403.7, any new source subject to this subchapter that introduces pollutants into a POTW shall comply with 40 CFR Part 403 and achieve the following pretreatment standards for new sources:

Table 159
Zinc Oxide Formed Anodes
PSNS

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units —	mg/kg of zinc
	English units —	lb/million lbs 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

Table 160 Electrodeposited Anodes PSNS

	1 5115	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — deposited	mg/kg of zinc
	English units — deposited	lb/million lbs of zinc
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

Table 161 Silver Powder Formed Cathodes PSNS

MAXIMUM FOR ANY 1 DAY MAXIMUM FOR ANY 1 DAY MONTHLY AVERAGE		1 51 15	
applied English units — lb/million lbs of silver applied Chromium 6.24 2.70 Mercury 3.86 1.63 Silver 6.24 2.70 Zinc 1.19 0.53			
silver applied Chromium 6.24 2.70 Mercury 3.86 1.63 Silver 6.24 2.70 Zinc 1.19 0.53			mg/kg of silver
Mercury 3.86 1.63 Silver 6.24 2.70 Zinc 1.19 0.53			-lb/million lbs of
Silver 6.24 2.70 Zinc 1.19 0.53	Chromium	6.24	2.70
Zinc 1.19 0.53	Mercury	3.86	1.63
	Silver	6.24	2.70
Manganese 8.91 6.83	Zinc	1.19	0.53
	Manganese	8.91	6.83

Table 162 Silver Oxide Powder Formed Cathodes PSNS

	I DI ID	
POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — applied	mg/kg of silver
	English units — silver applied	-lb/million lbs of
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

Table 163 Silver Peroxide Cathodes PSNS

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — applied	mg/kg of silver
	English units — silver applied	lb/million lbs of
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

Table 164 Nickel Impregnated Cathodes PSNS

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — applied	- mg/kg of nickel
	English units – nickel applied	– lb/million lbs of
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

Table 165 Miscellaneous Wastewater Streams PSNS

1 5145	
MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
Metric units — produced	mg/kg of cells
English units — produced	lb/million lbs of cells
0.27	0.12
0.039	0.016
0.17	0.07
0.27	0.12
0.27	0.12
0.05	0.02
0.39	0.30
	MAXIMUM FOR ANY 1 DAY Metric units — produced English units — produced 0.27 0.039 0.17 0.27 0.27 0.27 0.05

Table 166 Silver Etch PSNS

rono		
POLLUTANT OR	MAXIMUM FOR	MAXIMUM FOR
POLLUTANT PROPERTY	ANY 1 DAY	MONTHLY AVERAGE
	Metric units — processed	mg/kg of silver
	English units — silver processed	lb/million lbs of
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

Table 167 Silver Peroxide Production PSNS

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — silver peroxide	mg/kg of silver in produced
		lb/million lbs of 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

Table 168 Silver Powder Production PSNS

POLLUTANT OR POLLUTANT PROPERTY	MAXIMUM FOR ANY 1 DAY	MAXIMUM FOR MONTHLY AVERAGE
	Metric units — powder produce	
	English units — silver powder pr	- lb/million lbs of roduced
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

(2) There may be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed in tables 159 to 168.

History: Cr. Register, November, 1987, No. 383, eff. 12–1–87.

NR 255.80 Cross-references. The federal citations in this chapter correspond to provisions of the Wisconsin administrative code and Wisconsin statutes. The federal citations may be cross-referenced in the following table:

Code of Federal Regulations	Corresponding State References
40 CFR Part 401	ch. NR 205
40 CFR 403.6 (e)	s. NR 211.12
40 CFR 125.30 to 125.32	s. 283.13 (3), Stats.

History: Cr. Register, November, 1987, No. 383, eff. 12-1-87.