

**Environmental Protection Agency**

**§ 421.114**

**BAT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of concentrate digested	
Lead .....	1.778	.826
Zinc .....	6.478	2.668
Ammonia (as N) .....	846.600	372.200
Fluoride .....	222.300	127.000

(f) Subpart K—Tantalum Salt Drying.

**BAT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tantalum salt dried	
Lead .....	16.950	7.871
Zinc .....	61.750	25.430
Ammonia (as N) .....	8,070.000	3,548.000
Fluoride .....	2,119.000	1,211.000

(g) Subpart K—Oxides Calcining 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 columbium-tantalum oxide	
Lead .....	1.076	.500
Zinc .....	3.919	1.614
Ammonia (as N) .....	512.200	225.200
Fluoride .....	134.500	76.840

(h) Subpart K—Reduction of Tantalum Salt to Metal.

**BAT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tantalum salt reduced	
Lead .....	46.500	21.590
Zinc .....	169.400	69.750
Ammonia (as N) .....	22,140.000	9,732.000
Fluoride .....	5,813.000	3,322.000

(i) Subpart K—Reduction of Tantalum Salt to Metal 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 tantalum salt reduced	
Lead .....	.572	.266
Zinc .....	2.084	.858
Fluoride .....	71.510	40.860

(j) Subpart K—Tantalum Powder Wash.

**BAT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tantalum powder washed	
Lead .....	5.721	2.656
Zinc .....	20.840	8.582
Ammonia (as N) .....	2,724.000	1,198.000
Fluoride .....	715.200	408.700

(k) Subpart K—Consolidation and Casting Contact Cooling.

**BAT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of columbium or tantalum cast or consolidated	
Lead .....	.000	.000
Zinc .....	.000	.000
Ammonia (as N) .....	.000	.000
Fluoride .....	.000	.000

[49 FR 8817, Mar. 8, 1984, as amended at 50 FR 12253, Mar. 28, 1985]

**§ 421.114 Standards of performance for new sources.**

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

(a) Subpart K—Concentrate Digestion Wet Air Pollution Control.

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NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of concentrate digested	
Lead .....	.174	.081
Zinc .....	.635	.261
Ammonia (as N) .....	82.910	36.450
Fluoride .....	21.770	12.440
Total suspended solids .....	9.330	7.464
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(b) Subpart K—Solvent Extraction Raffinate.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of concentrate digested	
Lead .....	2.592	1.203
Zinc .....	9.442	3.888
Ammonia (as N) .....	1,233.000	542.5000
Fluoride .....	324.000	185.100
Total Suspended Solids .....	138.900	111.100
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

AA <sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(c) Subpart K—Solvent Extraction Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of concentrate digested	
Lead .....	.069	.032
Zinc .....	.251	.103
Ammonia (as N) .....	32.790	14.420
Fluoride .....	8.610	4.920
Total suspended solids .....	3.690	2.952
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(d) Subpart K—Precipitation and Filtration.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of concentrate digested	
Lead .....	3.833	1.780
Zinc .....	13.960	5.750

NSPS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Ammonia (as N) .....	1,825.000	802.200
Fluoride .....	479.100	273.800
Total suspended solids .....	205.400	164.300
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(e) Subpart K—Precipitation and Filtration Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of concentrate digested	
Lead .....	1.778	.826
Zinc .....	6.478	2.668
Ammonia (as N) .....	846.600	372.200
Fluoride .....	222.300	127.000
Total suspended solids .....	95.270	76.210
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(f) Subpart K—Tantalum Salt Drying.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tantalum salt dried	
Lead .....	16.950	7.871
Zinc .....	61.750	25.430
Ammonia (as N) .....	8,070.000	3,548.000
Fluoride .....	2,119.000	1,211.000
Total suspended solids .....	908.200	726.500
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(g) Subpart K—Oxides Calcining Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of columbium-tantalum oxide dried	
Lead .....	1.076	.500
Zinc .....	3.919	1.614
Ammonia (as N) .....	512.200	225.200
Fluoride .....	134.500	76.840
Total suspended solids .....	57.630	46.110
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

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(h) Subpart K—Reduction of Tantalum Salt to Metal.

**NSPS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tantalum salt reduced	
Lead .....	46.500	21.590
Zinc .....	169.400	69.750
Ammonia (as N) .....	22,140.000	9,732.000
Fluoride .....	5,813.000	3,322.000
Total suspended solids .....	2,491.000	1,993.000
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(i) Subpart K—Reduction of Tantalum Salt to Metal Wet Air Pollution Control.

**NSPS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tantalum salt reduced	
Lead .....	.572	.266
Zinc .....	2.084	.858
Ammonia (as N) .....	272.400	119.700
Fluoride .....	71.510	40.860
Total suspended solids .....	30.650	24.520
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(j) Subpart K—Tantalum Powder Wash.

**NSPS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tantalum powder washed	
Lead .....	5.721	2.656
Zinc .....	20.840	8.582
Ammonia (as N) .....	2,724.000	1,198.000
Fluoride .....	715.200	408.700
Total suspended solids .....	306.500	245.200
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(k) Subpart K—Consolidation and Casting Contact Cooling.

**NSPS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of columbium or tantalum cast or consolidated	
Lead .....	.000	.000
Zinc .....	.000	.000
Ammonia (as N) .....	.000	.000
Fluoride .....	.000	.000
Total suspended solids .....	.000	.000
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

[49 FR 8817, Mar. 8, 1984, as amended at 49 FR 29795, July 24, 1984; 50 FR 12253, Mar. 28, 1985]

**§ 421.115 Pretreatment standards for existing sources.**

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in primary columbium-tantalum process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart K—Concentrate Digestion Wet Air Pollution Control.

**PSES**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of concentrate digested	
Lead .....	.174	.081
Zinc .....	.635	.261
Ammonia (as N) .....	82.910	36.450
Fluoride .....	21.770	12.440

(b) Subpart K—Solvent Extraction Raffinate.

**PSES**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
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Lead .....	2.592	1.203
Zinc .....	9.442	3.888
Ammonia (as N) .....	1,233.000	542.5000