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§ 421.95 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 metallurgical acid plant blowdown introduced into a POTW shall not exceed the following values:

SUBPART I—METALLURGICAL ACID PLANT—PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per/million pounds) of 100 pct sul- furic acid capacity	
CadmiumZinc	0.511 2.605	0.204 1.073

[50 FR 38343, Sept. 20, 1985]

§421.96 Pretreatment standards for new sources.

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

SUBPART I—METALLURGICAL ACID PLANT—PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of 100 pct sul- furic acid capacity	
Arsenic	3,550	1.584
Arsenic	3.550	1.584
Cadmium	0.511	0.204
Copper	3.269	1.558
Lead	0.715	0.332
Zinc	2.605	1.073
Fluoride 1	89.390	50.820
Molybdenum 1	[Reserved]	[Reserved].

¹ For Molybdenum acid plants only.

 $[50~{\rm FR}~38343,~{\rm Sept.}~20,~1985,~{\rm as~amended~at}~55~{\rm FR}~31697,~{\rm Aug.}~3,~1990]$

§ 421.97 [Reserved]

Subpart J—Primary Tungsten Subcategory

§ 421.100 Applicability: Description of the primary tungsten subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of tungsten at primary tungsten facilities.

[49 FR 8812, Mar. 8, 1984]

§ 421.101 Specialized definitions.

For the purpose of this subpart the general information, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

[49 FR 8812, Mar. 8, 1984]

§ 421.102 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Subpart J—Tungstic Acid Rinse.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungstic acid (as W) produced	
Lead	17.230	8.205
Zinc	59.900	25.030
Ammonia (as N)	5,469.000	2,404.00
Total suspended solids	1,682.000	800.000
pH	(1)	(¹)

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

(b) Subpart J—Acid Leach Wet Air Pollution Control.

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BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungstic acid (as W) produced	
Lead	15.040	7.162
Zinc	52.280	21.840
Ammonia (as N)	4,773.000	2,098.000
Total suspended solids	1,468.000	698.300
pH	(1)	(¹)

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

(c) Subpart J—Alkali Leach Wash.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of sodiur tungstate (as W) pro duced	
Lead	0.000	0.000
Zinc	0.000	0.000
Ammonia (as N)	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

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

(d) Subpart J-Alkali Leach Wash Condensate.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of sodium tungstate (as W) pro- duced	
Lead	8.057	3.837
Zinc	28.011	11.700
Ammonia (as N)	2,557.000	1,124.000
Total suspended solids	786.200	374.100
pH	(1)	(1)

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

(e) Subpart J-Ion Exchange Raffinate (Commingled With Other Process or Nonprocess Waters).

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of ammoniur tungstate (as W) pro duced	
Lead	37.160	17.700
Zinc	129.200	53.970
Ammonia (as N)	11,790.000	5,185.000
Total Suspended solids	3,627.000	1,726.000
pH	(1)	(¹)

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

(f) Subpart J-Ion Exchange Raffinate (Not Commingled With Other Process or Nonprocess Waters).

BPT EFFLUENT LIMITATIONS

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per millior pounds) of ammonium tungstate (as W) pro duced	
37.160	17.700
129.200	53.970
11,790.000	5,185.000
3,627.000	1,726.000
(1)	(1)
	mg/kg (pound pounds) of tungstate duced 37.160 129.200 11,790.000

(g) Subpart J—Calcium Tungstate Precipitate Wash.

BPT EFFLUENT LIMITATIONS

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per millior pounds) of calciun tungstate (as W) pro duced	
31.000	14.760
107.800	45.020
9,838.000	4,325.000
3,026.000	1,439.000
(1)	(1)
	mg/kg (pound pounds) tungstate duced 31.000 107.800 9,838.000 3,026.000

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

(h) Subpart J-Crystallization and Drying of Ammonium Paratungstate.

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

² The effluent limitation guideline for this pollutant does not apply if (a) the mother liquor feed to the ion exchange process or the raffinate from the ion exchange process contains sulfates at concentrations exceeding 1000 mg/l; (b) this mother liquor or raffinate is treated by ammonia steam stripping; and (c) such mother liquor or raffinate is not commingled with any other process or nonprocess waters prior to steam stripping for ammonia removal.

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BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of ammonium paratungstate (as W) produced	
Lead	0.000	0.000
Zinc	0.000	0.000
Ammonia (as N)	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

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

(i) Subpart J—Ammonium Paratungstate Conversion to Oxides Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungstic oxide (as W) produced	
Lead	11.600 40.320 3,681.000 1,132.000 (¹)	5.523 16.850 1,618.000 538.500 (1)

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

 $\begin{array}{ll} \hbox{(j)} & Subpart & J{\rm --Ammonium} \\ Paratung state & Conversion & to & Oxides \\ Water & of Formation. \end{array}$

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tungstic oxid (as W) produced	
Lead	0.026 0.092 8.398 2.583 (¹)	0.013 0.038 3.692 1.229 (¹)

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

(k) Subpart J—Reduction to Tungsten Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of tungsten uced
Lead	12.940	6.161

BPT EFFLUENT LIMITATIONS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Zinc	44.970	18.790
Ammonia (as N)	4,106.000	1,805.000
Total suspended solids	1,263.000	600.700
pH	(1)	(1)

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

(1) Subpart J—Reduction to Tungsten Water of Formation.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of tungsten uced
Lead	.205 .714 65.190 20.050 (¹)	.098 .298 28.660 9.536 (¹)

 $^{^{\}mbox{\scriptsize 1}}$ Within the range of 7.0 to 10.0 at all times.

(m) Subpart J—Tungsten Powder Acid Leach and Wash.

BPT EFFLUENT LIMITATIONS

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per millior pounds) of tungster metal produced	
1.008	0.48
3.504	1.464
319.900	140.700
98.400	46.800
(1)	(1)
	mg/kg (pound pounds) metal product 1.008 3.504 319.900 98.400

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

(n) Subpart J—Molybdenum Sulfide Precipitation Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungster metal produced	
Lead	.000 .000 .000 .000 .000	.000 .000 .000 .000 .000

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

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[49 FR 8812, Mar. 8, 1984, as amended at 53 FR 1706, Jan. 21, 1988]

§ 421.103 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Subpart J—Tungstic Acid Rinse.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungstic acid (as W) produced	
Lead	11.490	5.333
Zinc	41.850	17.230
Ammonia (as N)	5,469.000	2,404.000

(b) Subpart J—Acid Leach 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 tungstic acid (as W) produced	
Lead	1.003 3.653 477.400	0.466 1.504 209.900

(c) Subpart J—Alkali Leach Wash.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of sodium tungstate (as W) pro- duced	
Lead Zinc Ammonia (as N)	0.000 0.000 0.000	0.000 0.000 0.000
Allillollia (as iv)	0.000	0.000

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(d) Subpart J—Alkali Leach Wash Condensate.

BAT EFFLUENT LIMITATIONS

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per millio pounds) of sodiur tungstate (as W) pro duced	
5.372	2.494
19.570	8.057
2,557.000	1,124.000
	for any 1 day mg/kg (pound pounds) tungstate duced 5.372 19.570

(e) Subpart J—Ion Exchange Raffinate (Commingled With Other Process or Nonprocess Waters).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f ammonium (as W) pro-
Lead	24.780 90.240 11,790.000	11.500 37.160 5,185.000

(f) Subpart J—Ion Exchange Raffinate (Not Commingled With Other Process or Nonprocess Waters).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of ammonium tungstate (as W) pro- duced	
Lead	24.780	11.500
Zinc	90.240	37.160
Ammonia (as N) 1	11,790.000	5,185.000

¹ The effluent limitation for this pollutant does not apply if a) the motor liquor feed to the ion exchange process or the raffinate from the ion exchange process contains sulfates at concentrations exceeding 1000 mg/1; b) this mother liquor or raffinate is treated by ammonia steam stripping; and c) such mother liquor or raffinate is not commingled with any other process or nonprocess waters prior to steam stripping for ammonia removal.

(g) Subpart J—Calcium Tungstate Precipitate Wash.