

Environmental Protection Agency

§ 421.264

(i) Platinum precipitation and filtration.

**BAT LIMITATIONS FOR THE SECONDARY
PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of platinum precipitated	
Copper	6.656	3.172
Cyanide (total)	1.040	0.416
Zinc	5.304	2.184
Combined metals	0.560	.....
Ammonia (as N)	693.200	304.700

(j) Palladium precipitation and filtration.

**BAT LIMITATIONS FOR THE SECONDARY
PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of palladium precipitated	
Copper	7.680	3.660
Cyanide (total)	1.200	.480
Zinc	6.120	2.520
Combined metals	1.800	.....
Ammonia (as N)	799.800	351.600

(k) Other platinum group metals precipitation and filtration.

**BAT LIMITATIONS FOR THE SECONDARY
PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of other platinum group metals precipitated	
Copper	6.656	3.172
Cyanide (total)	1.040	0.416
Zinc	5.304	2.184
Combined metals	1.560	.....
Ammonia (as N)	693.200	304.700

(l) Spent solutions from PGC salt production.

**BAT LIMITATIONS FOR THE SECONDARY
PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold contained in PGC product	
Copper	1.152	0.549
Cyanide (total)	0.180	0.072

**BAT LIMITATIONS FOR THE SECONDARY
PRECIOUS METALS SUBCATEGORY—Continued**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Zinc	0.918	0.378
Combined metals	0.270	.....
Ammonia (as N)	120.000	52.740

(m) Equipment and floor wash.

**BAT LIMITATIONS FOR THE SECONDARY
PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, including silver, produced in refinery	
Copper	0.000	0.000
Cyanide (total)	0.000	0.000
Zinc	0.000	0.000
Combined metals	0.000	.....
Ammonia (as N)	0.000	0.000

(n) Preliminary Treatment.

**BAT LIMITATIONS FOR THE SECONDARY
PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Mg/troy ounce of total precious metals produced through this operation	
Copper	64.000	30.500
Cyanide (Total)	10.000	4.000
Zinc	51.000	21.000
Combined metals	15.000	.....
Ammonia (as N)	6665.000	2930.000

[50 FR 38365, Sept. 20, 1985, as amended at 55 FR 31706-31708, Aug. 3, 1990; 55 FR 36932, Sept. 7, 1990]

§ 421.264 Standards of performance for new sources.

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

(a) Furnace wet air pollution control.

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NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg Troy ounce of precious metals, including silver, incinerated or smelted	
Copper	5.760	2.745
Cyanide (total)	0.900	0.360
Zinc	4.590	1.890
Combined metals	1.350	.....
Ammonia (as N)	599.900	263.700
Total suspended solids	67.500	54.000
pH	(¹)	(¹)

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

(b) Raw material granulation.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg Troy ounce of precious metals in the granulated raw material	
Copper	0.819	0.390
Cyanide (total)	0.128	0.051
Zinc	0.653	0.269
Combined metals	0.192	.....
Ammonia (as N)	85.310	37.500
Total suspended solids	9.600	7.680
pH	(¹)	(¹)

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

(c) Spent plating solutions.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/liter of spent plating solution used as a raw material	
Copper	1.280	0.610
Cyanide (total)	0.200	0.080
Zinc	1.020	0.420
Combined metals	0.300	.....
Ammonia (as N)	133.300	58.600
Total suspended solids	15.000	12.000
pH	(¹)	(¹)

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

(d) Spent cyanide stripping solutions.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg Troy ounce of gold produced by cyanide stripping	
Copper	4.736	2.257
Cyanide (total)	0.740	0.296
Zinc	3.774	1.554
Combined metals	1.11	.....
Ammonia (as N)	493.200	216.800
Total suspended solids	55.500	44.400
pH	(¹)	(¹)

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

(e) Refinery Wet Air Pollution Control²

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg Troy ounce of precious metals, including silver, produced in refinery	
Copper	1.280	0.610
Cyanide (total)	0.200	0.080
Zinc	1.020	0.420
Combined metals	0.300	.....
Ammonia (as N)	133.300	58.600
Total suspended solids	15.000	12.000
pH	(¹)	(¹)

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

(f) Gold solvent extraction raffinate and wash water.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg Troy ounce of gold produced by solvent extraction	
Copper	0.806	0.384
Cyanide (total)	0.126	0.050
Zinc	0.643	0.265
Combined metals	0.189	.....
Ammonia (as N)	83.980	36.920
Total suspended solids	9.450	7.560
pH	(¹)	(¹)

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

(g) Gold spent electrolyte.

²This allowance applies to either acid or alkaline wet air pollution control scrubbers. If both acid and alkaline wet air pollution control scrubbers are present in a particular facility the same allowance applies to each.

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NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold produced by electrolysis	
Copper	0.011	0.005
Cyanide (total)	0.002	0.001
Combined metals	0.003	.....
Zinc	0.009	0.004
Ammonia (as N)	1.160	0.510
Total suspended solids	0.131	0.104
pH	(¹)	(¹)

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

(h) Gold precipitation and filtration.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold precipitated	
Copper	5.632	2.684
Cyanide (total)	0.880	0.352
Zinc	4.488	1.848
Combined metals	1.320
Ammonia (as N)	586.500	257.800
Total suspended solids	66.00	52.800
pH	(¹)	(¹)

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(i) Platinum precipitation and filtration.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of platinum precipitated	
Copper	6.656	3.172
Cyanide (total)	1.040	0.416
Zinc	5.304	2.184
Combined metals	1.560	.....
Ammonia (as N)	693.200	304.700
Total suspended solids	78.000	62.400
pH	(¹)	(¹)

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

(j) Palladium precipitation and filtration.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of palladium precipitated	
Copper	7.680	3.660
Cyanide (total)	1.200	0.480
Zinc	6.1200	2.520
Combined metals	1.800	.....
Ammonia (as N)	799.800	351.600
Total suspended solids	90.000	72.000
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.00 at all times.

(k) Other platinum group metals precipitation and filtration.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of other platinum group metals precipitated	
Copper	6.656	3.172
Cyanide (total)	1.040	0.416
Zinc	5.304	2.184
Combined metals	1.560	.....
Ammonia (as N)	693.200	304.700
Total suspended solids	78.000	62.400
pH	(¹)	(¹)

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

(l) Spent solution from PGC salt production.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold contained in PGC product	
Copper	1.152	0.549
Cyanide (total)	0.180	0.072
Zinc	0.918	0.378
Combined metals	0.270	.....
Ammonia (as N)	120.000	52.740
Total suspended solids	13.500	10.800
pH	(¹)	(¹)

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

(m) Equipment and floor wash.

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NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg Troy ounce of precious metals, including silver, produced in refinery	
Copper	0.000	0.000
Cyanide (total)	0.000	0.000
Zinc	0.000	0.000
Combined metals	0.000	.....
Ammonia (as N)	0.000	0.000
Total suspended solids	0.000	0.000
pH	(¹)	(¹)

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

(n) Preliminary Treatment.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg Troy ounce of total precious metals produced through this operation	
Copper	64.000	30.500
Cyanide (Total)	10.000	4.000
Zinc	51.000	21.000
Combined metals	15.000	.....
Ammonia (as N)	6665.000	2930.000
Total Suspended Solids	750.000	600.000
pH	(¹)	(¹)

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

[50 FR 38365, Sept. 20, 1985, as amended at 55 FR 31708-31710, Aug. 3, 1990]

§ 421.265 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 secondary precious metals process wastewater introduced into a POTW must not exceed the following values:

(a) Furnace wet air pollution control.

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PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
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Copper	5.760	2.745
Cyanide (total)	0.900	0.360
Zinc	4.590	1.890
Combined metals	1.350
Ammonia (as N)	599.900	263.700

(b) Raw material granulation.

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg Troy ounce of precious metals in the granulated raw material	
Copper	0.819	0.390
Cyanide (total)	0.128	0.051
Zinc	0.653	0.269
Combined metals	0.192
Ammonia (as N)	85.310	37.500

(c) Spent plating solutions.

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Copper	1.280	0.610
Cyanide (total)	0.200	0.080
Zinc	1.020	0.420
Combined metals	0.300
Ammonia (as N)	133.300	58.600

(d) Spent Cyanide stripping solutions.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg Troy ounce of gold produced by cyanide stripping	
Copper	4.736	2.257
Cyanide (total)	0.740	0.296
Zinc	3.774	1.554
Combined metals	1.110	.....