

§ 421.265

40 CFR Ch. I (7-1-09 Edition)

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.

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 treat-

ment 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.

PSES 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 |

(b) Raw material granulation.

PSES 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 |

(c) Spent plating solutions.

PSES 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 |

(d) Spent Cyanide stripping solutions.

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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 | ..... |
| Ammonia (as N) | 493.200 | 216.800 |

(e) Refinery Wet Air Pollution Control.¹

PSES 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 |

(f) Gold solvent extraction raffinate and wash water.

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 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 |

(g) Gold spent electrolyte.

¹This 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.

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 electrolysis | |
| Copper | 0.011 | 0.005 |
| Cyanide (total) | 0.002 | 0.001 |
| Zinc | 0.009 | 0.004 |
| Combined metals | 0.003 | ..... |
| Ammonia (as N) | 1.160 | 0.510 |

(h) Gold precipitation and filtration.

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 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 |

(i) Platinum precipitation and filtration.

PSES 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 |

(j) Palladium precipitation and filtration.

PSES 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 | 6.120 | 2.520 |
| Combined metals | 1.800 | |
| Ammonia (as N) | 799.800 | 351.600 |

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(k) Other platinum group metals precipitation and filtration.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
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| | 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 solution from PGC salt production.

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| Copper | 1.152 | 0.549 |
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| Zinc | 0.918 | 0.378 |
| Combined metals | 0.270 | |
| Ammonia (as N) | 120.000 | 52.740 |

(m) Equipment and floor wash.

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| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
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| | 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.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

| Pollutant or pollutant property | Maximum for any 1 day | Maximum for monthly average |
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| | Mg/troy ounce of total precious metals produced through this operation | |
| Copper | 64.000 | 30.500 |
| Cyanide (Total) | 10.000 | 4.000 |

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PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY—Continued

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| 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 31710, 31711, Aug. 3, 1990]

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

(a) Furnace wet air pollution control.

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| | mg/troy ounce of precious metals, including silver, incinerated or smelted | |
| Copper | 5.760 | 2.745 |
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| Zinc | 4.590 | 1.890 |
| Combined metals | 1.350 | |
| Ammonia (as N) | 599.900 | 263.700 |

(b) Raw material granulation.

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| | 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 | 85.310 | 37.500 |

(c) Spent plating solutions.