

**ENVIRONMENTAL PROTECTION  
AGENCY**

40 CFR Part 421  
(OW-FRL-3774-1)

**Nonferrous Metals Manufacturing  
Point Source Category; Effluent  
Limitations Guidelines, Pretreatment  
Standards and New Source  
Performance Standards**

**AGENCY:** Environmental Protection  
Agency (EPA).

**ACTION:** Proposed regulation.

**SUMMARY:** EPA is proposing amendments to the regulation which limits effluent discharges to waters of the United States and the introduction of pollutants into publicly owned treatment works by existing and new sources that conduct metal manufacturing operations in the metallurgical acid plants subcategory (Subpart I), primary beryllium subcategory (Subpart O), primary molybdenum subcategory (Subpart S), secondary molybdenum and vanadium subcategory (Subpart T), secondary precious metals subcategory (Subpart X), and secondary tungsten and cobalt subcategory (Subpart AC). EPA agreed to propose these amendments in settlement agreements with AMAX Inc., Brush Wellman Inc., Engelhard Corporation, GTE Products Corp., Gulf Chemical and Metallurgical Company, and Johnson Matthey, Inc. The agreements settle disputes between these companies and EPA that were the subject of petitions for review of the final nonferrous metals manufacturing regulation promulgated by EPA on September 20, 1985 (50 FR 38276).

The proposed amendments include: (1) Certain modifications of the effluent limitations for "best practicable technology" (BPT), "best available technology economically achievable" (BAT), and "new source performance standards" (NSPS) for direct dischargers; and (2) certain modifications to the pretreatment standards for new and existing indirect dischargers (PSNS and PSES). After considering comments received in response to this proposal, EPA will promulgate a final rule.

**DATE:** Comments on this proposal must be submitted on or before May 30, 1989.

**ADDRESS:** Send comments to Industrial Technology Division (WH-552), Environmental Protection Agency, 401 M Street SW., Washington, DC 20460. Attention: ITD Docket Clerk, Proposed Nonferrous Metals Manufacturing (WH-552).

The supporting information and all comments on this proposal will be

available for inspection and copying at the EPA Public Information Reference Unit, Room 2404 (Rear) (EPA Library) 501 M Street SW., Washington, DC. The EPA information regulation (40 CFR Part 2) provides that a reasonable fee may be charged for copying.

**FOR FURTHER INFORMATION CONTACT:** Questions regarding this notice may be addressed to Mr. Ernst P. Hall at (202) 382-7128.

**SUPPLEMENTARY INFORMATION:**  
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**I. Legal Authority**

The amendments described in this notice are proposed under authority of sections 301, 304, 306, 307, 308, and 501 of the Clean Water Act (the Federal Water Pollution Control Act Amendments of 1972, 33 U.S.C. 1251 et seq., as amended by the Clean Water Act of 1977, Pub. L. 95-217). These amendments are also being proposed in response to the Settlement Agreements in *AMAX Inc. v. U.S. Environmental Protection Agency*, *Brush Wellman Inc. v. U.S. Environmental Protection Agency*, *Engelhard Corporation v. U.S. Environmental Protection Agency*, *GTE Products Corp. v. U.S. Environmental Protection Agency*, *Gulf Chemical and Metallurgical Co. v. U.S. Environmental Protection Agency*, and *Johnson Matthey, Inc. v. U.S. Environmental Protection Agency*, Nos. 85-3560, 86-3072, 85-3694, 85-3625, 86-3039 and 85-3726 respectively (3rd Cir. 1986).

**II. Background**

**A. Rulemaking and Settlement Agreements**

On March 8, 1984, EPA promulgated Best Practicable Control Technology Currently Available (BPT) and Best Available Technology Economically Achievable (BAT) effluent limitations guidelines and new source performance standards (NSPS), pretreatment standards for existing sources (PSES) and pretreatment standards for new

sources (PSNS) for the twelve subcategories in the nonferrous metals manufacturing (NFM) point source category (49 FR 8714). At that time the Agency recognized that we would regulate additional subcategories in the nonferrous metals manufacturing subcategory at some future date. On June 27, 1984 (49 FR 26352) EPA proposed an amendment to establish Best Practicable Control Technology Currently Available (BPT) and Best Available Technology Economically Achievable (BAT) effluent limitations guidelines, New Source Performance Standards (NSPS), Pretreatment Standards for Existing Sources (PSES), and Pretreatment Standards for New Sources (PSNS) for some twenty-five additional subcategories in the nonferrous metals manufacturing point source category. The final rule amending the nonferrous metals manufacturing industry point source category (i.e., NFMII) was promulgated on September 20, 1985 (50 FR 38276) and established effluent limitations guidelines and standards to control specific toxic, nonconventional and conventional pollutants for twenty new subcategories in the nonferrous metals manufacturing point source category. Only six of these subcategories (the metallurgical acid plants subcategory (Subpart I), the primary beryllium subcategory (Subpart O), the primary molybdenum and rehenium subcategory (Subpart S), the secondary molybdenum and vanadium subcategory (Subpart T), the secondary precious metals subcategory (Subpart X), and the secondary tungsten and cobalt subcategory (Subpart AC)) are affected by today's proposal. The remaining subcategories are unchanged by today's proposal.

**B. Effect of the Settlement Agreements for Nonferrous Metals Manufacturing**

After promulgation of the amendments to the NFM regulation (September 20, 1985), petitions for judicial review of the final regulation were filed in various United States Courts of Appeals by AMAX Inc., Brush Wellman Inc., Engelhard Corporation, GTE Products Corp., Gulf Chemical and Metallurgical Co., Johnson Matthey, Inc., Remacor Inc., Teledyne WaChang Albany Inc., Oregon Metallurgical Inc. and Tex Tin. On April 9, 1986, these petitions were consolidated in the United States Court of Appeals for the Third Circuit for judicial review. The Agency held extensive negotiations with the petitioners on issues relating to the effluent limitations guidelines and standards for the nonferrous metals manufacturing point source categories.

As a result of these negotiations, three petitioners, Teledyne WaChang Albany Inc., Oregon Metallurgical Inc., and Tex Tin withdrew their petitions for review. The Agency took a voluntary remand in response to Remacor's petition. The remaining petitioners entered into comprehensive settlement agreements with the Agency resolving all issues raised in the litigation. In these agreements EPA agreed to propose amendments to the NFM regulation and to solicit comments regarding these proposed amendments. EPA also agreed to propose specific preamble language. The petitioners agreed to move to dismiss their petitions for judicial review within 30 days from the date any final amendments and preamble are published by the EPA provided each provision of the final NFM regulation is substantially the same as that called for by the settlement agreements. Copies of the settlement agreements were promptly sent to EPA's Regional offices and State NPDES permit issuing authorities.

As part of the settlement agreements, EPA and the petitioners jointly requested the United States Court of Appeals for the Third Circuit to stay the effectiveness of those portions of 40 CFR Part 421 that EPA is proposing to amend, pending final action by EPA on the proposed amendments. On June 2, 1987 and June 23, 1987, the Court entered orders staying the following sections of the regulation promulgated on September 20, 1985:

**Subpart I—Metallurgical Acid Plant Subcategory**

- 40 CFR Part 421.93—The molybdenum limitations only.
- 40 CFR Part 421.94—The molybdenum limitations only.
- 40 CFR Part 421.96—The molybdenum limitations only.

**Subpart O—Primary Beryllium Subcategory**

- 40 CFR Part 421.152(d)—All limitations except pH.
- 40 CFR Part 421.152(f)—Fluoride limitations only.
- 40 CFR Part 421.153(d)—All limitations.
- 40 CFR Part 421.153(f)—Fluoride limitations only.
- 40 CFR Part 421.154(d)—All limitations except pH.
- 40 CFR Part 421.154(f)—Fluoride limitations only.

**Subpart S—Primary Molybdenum and Rhenium Subcategory**

- 40 CFR Part 421.212(a)(e)—The molybdenum limitations only.
- 40 CFR Part 421.213(a)(e)—The molybdenum limitations only.
- 40 CFR Part 421.214(a)(e)—The molybdenum limitations only.
- 40 CFR Part 421.216(a)(e)—The molybdenum limitations only.

**Subpart T—Secondary Molybdenum and Vanadium Subcategory**

- 40 CFR Part 421.222(a)(b)—All pollutants except for the pH limitation.
- 40 CFR Part 421.223(a)(b)—All pollutants.
- 40 CFR Part 421.224(a)(b)—All pollutants except for the pH limitation.
- 40 CFR Part 421.226(a)(b)—All pollutants.

**Subpart X—Secondary Precious Metals Subcategory**

- 40 CFR Part 421.262 (a)–(i); (k)–(m)—All limitations for gold, platinum and palladium.
- 40 CFR Part 421.262(j)—All limitations except pH.
- 40 CFR Part 421.263 (a)–(i); (k)–(m)—All limitations for gold, platinum and palladium.
- 40 CFR Part 421.263(j)—All limitations.
- 40 CFR Part 421.264 (j)–(i); (k)–(m)—All limitations.
- 40 CFR Part 421.264(j)—All limitations except pH.
- 40 CFR Part 421.265 (a)–(i); (k)–(m)—All limitations for gold, platinum and palladium.
- 40 CFR Part 421.265(j)—All limitations.
- 40 CFR Part 421.266 (a)–(i); (k)–(m)—All limitations for gold, platinum and palladium.
- 40 CFR Part 421.266(j)—All limitations.

**Subpart AC—Secondary Tungsten and Cobalt Subcategory**

- 40 CFR Part 421.312 (a)–(k)—The Cobalt limitations only.
- 40 CFR Part 421.313 (a)–(k)—The Cobalt limitations only.
- 40 CFR Part 421.314 (a)–(k)—The Cobalt limitations only.
- 40 CFR Part 421.315 (a)–(k)—The Cobalt limitations only.
- 40 CFR Part 421.316 (a)–(k)—The Cobalt limitations only.

EPA is today proposing to amend these sections in accord with the settlement agreements. All limitations and standards in the final nonferrous metals manufacturing regulation that are not specifically listed in this proposal remain in effect. EPA is not today proposing to delete or modify any effluent limitations guidelines or standards not either stayed or remanded.

**III. Proposed Amendments to the Nonferrous Metals Manufacturing Phase II Regulation**

In the Settlement Agreements, EPA agreed to propose specific changes to the NFM regulation for the following subcategories: Subpart I—Metallurgical Acid Plants Subcategory, Subpart O—Primary Beryllium Subcategory, Subpart S—Primary Molybdenum and Rhenium Subcategory, Subpart T—Secondary Molybdenum and Vanadium Subcategory, Subpart X—Secondary Precious Metals Subcategory, and Subpart AC—Secondary Tungsten and

Cobalt Subcategory. These proposed changes are discussed below.

**(A) Primary Beryllium Subcategory (Subpart O)**

**1. Treatment Effectiveness Concentration for Fluoride Removal**

EPA is proposing amendments to the BPT and BAT limitations and NSPS, PSES and PSNS for fluoride in the beryllium hydroxide supernatant building block when fluoride is treated under a specific set of circumstances. EPA promulgated effluent limitations and standards based on fluoride removal using lime, settle and filter model technology. In the promulgated rule, these limitations and standards applied regardless of the composition of the influent being treated (50 FR 38346, September 20, 1985). The petitioners indicated that although they could meet these values for most of their streams, the wastestream from the beryllium hydroxide supernatant process step could not be treated to this level because it contains unusually high concentrations of total dissolved solids (TDS). They stated that TDS at such high concentrations could interfere with the model technology performance by significantly inhibiting the precipitation of fluoride.

EPA has reconsidered the promulgated fluoride limit in the beryllium hydroxide supernatant wastestream which contains reported levels of TDS as high as 200,000 mg/l. Upon further review and analysis of the available data bearing on fluoride treatment effectiveness at such high TDS levels, the Agency has concluded the long term average value of 14.6 mg/l used as the basis for the promulgated limitations is inappropriate for this wastewater stream. Therefore, EPA is proposing to establish a mass discharge allowance for wastewater from the beryllium hydroxide supernatant building block based upon a long term average fluoride treatment effectiveness concentration value of 170.0 mg/l. This revised treatment effectiveness value for fluoride is based upon data from an EPA treatability study of cathode reprocessing wastewater in the primary aluminum subcategory. The reprocessing wastewater there had TDS and fluoride levels comparable to the influent values found for the beryllium hydroxide supernatant process regulated in this subcategory. Therefore, we are transferring the lime settle and filter treatment performance for the beryllium hydroxide supernatant building block from the primary aluminum subcategory.

The only building block in the primary beryllium subcategory that contains these high TDS and fluoride levels affecting the treatment effectiveness of fluoride is beryllium hydroxide supernatant. Thus, today's proposal is limited to revising the fluoride limit in that building block.

## 2. Regulatory Flows

EPA is proposing to increase the mass pollutant discharge limits for the beryllium hydroxide filtrate building block. Based on more detailed information, EPA has determined that the regulatory flow allowance used as the basis for developing the discharge limit should be revised from 52,600 to 136,000 l/kg. The pollutants regulated in this building block and the associated treatment effectiveness values for those pollutants will remain the same as originally promulgated. Additionally, the Agency is clarifying that the production of beryllium hydroxide is additive to the production of beryllium carbonate and both the beryllium carbonate and beryllium hydroxide allowance are applied when beryllium hydroxide is produced.

## 3. New Building Blocks

EPA is also proposing to add new building blocks for the following six processes in the primary beryllium subcategory: beryl ore gangue dewatering, bertrandite ore gangue dewatering, beryl ore processing (comprises quench pit, scrubber and washdown), AIS area wastewater, bertrandite ore leaching scrubber, and bertrandite ore counter current decantation scrubber. These building blocks were not included in the promulgated rule because the Agency anticipated they would be addressed through permit limits developed on the basis of best professional judgment. As part of the settlement negotiations, however, petitioner requested that EPA establish national regulations for these processes. Today's proposal would regulate the same pollutants as regulated in other primary beryllium building blocks and rely on the same end of pipe wastewater treatment technology. The flow basis for this proposal is as follows: 1,043 l/kg for beryl ore gangue dewatering; 2,665 l/kg for bertrandite ore gangue dewatering; 7,303 l/kg for beryl ore processing; 468,000 l/kg for aluminum iron sludge (AIS) area wastewater; 1,511 l/kg for bertrandite ore leaching scrubber; and 101 l/kg for bertrandite ore counter current decantation scrubber.

## 4. Monitoring Requirements

EPA has reviewed the processes employed in generating beryllium hydroxide and carbonate and finds that certain building blocks of the manufacturing processes do not use cyanide. If a plant uses these noncyanide processes and does not use cyanide elsewhere in the facility, the requirement for cyanide monitoring may appropriately be reduced. Accordingly, EPA is proposing to allow yearly confirmatory analysis in any beryllium manufacturing plant which discharges to a navigable water or a POTW and which certifies that it does not use or generate cyanide at the facility.

### (B) Primary Molybdenum and Rhenium Subcategory (Subpart S) and Metallurgical Acid Plants Subcategory (Subpart I)

#### 1. Treatment Effectiveness Concentration for Molybdenum Removal

EPA is proposing amendments to the BAT limitations, NSPS and PSNS for the metallurgical acid plant subcategory, and BPT and BAT limitations, and NSPS, and PSNS for the primary molybdenum and rhenium subcategories. EPA promulgated effluent limitations and standards based on molybdenum removal using iron coprecipitation model technology. The petitioners have raised technical concerns about the operating data upon which the model technology is based and the ability of that technology to achieve the molybdenum limitations promulgated for these two subcategories.

As part of the settlement, EPA is proposing to suspend the molybdenum limitations and standards for the metallurgical acid plant and the primary molybdenum and rhenium subcategories. Petitioners have agreed, as part of the settlement agreement, to install the model technology (full-scale iron coprecipitation) and beginning on April 30, 1988, provide the Agency with one year of operating data (daily observations for the first three months and weekly observations for the remaining nine months). This information will be provided to the Agency on a monthly basis. EPA has agreed to consider this data in proposing new molybdenum limits for these two subcategories.

Due to the technical concerns raised by petitioners and the absence of specific iron coprecipitation data for this particular subcategory, EPA is unable to propose alternative treatment effectiveness concentrations for molybdenum for the metallurgical acid

plant and the primary molybdenum and rhenium subcategories at this time. Petitioners expressed their belief to the Agency that, pending installation of the full-scale model technology, they could achieve a one-day maximum of 60 mg/l and a monthly average of 30 mg/l based on data from the equivalent of a properly operated lime settle and filter system. Based on these representations, any BPJ limitation should not be less stringent than this daily maximum and monthly average.

### (C) Secondary Molybdenum and Vanadium Subcategory (Subpart T)

#### 1. Regulatory Flows for the Pure Grade Molybdenum Building Block

EPA is today proposing to establish BPT and BAT limitations, NSPS, and PSNS for a new pure grade molybdenum building block for the secondary molybdenum and vanadium subcategory. This building block applies to the production of pure grade molybdenum from commercial grade molybdenum and is based on a production normalized flow of 23,280 liters per kkg of pure molybdenum produced. This building block was not included in the promulgated rule because the wastewater from this operation was included as part of the flow from the molybdenum filtrate solvent extraction building block. Petitioner has indicated that the pure grade molybdenum process and the molybdenum solvent extraction operations are not directly linked as the Agency had believed. Today's action, therefore, proposes to establish a new building block for the pure grade molybdenum process. As noted below, the regulatory flow for the molybdenum solvent extraction raffinate will be adjusted accordingly.

#### 2. Change in Production Normalized Flows ("PNF")

EPA is proposing to modify the flow allowance for the molybdenum filtrate solvent extraction building block from 60,548 to 58,239 liters per kkg of technical grade and pure grade molybdenum and vanadium produced. This adjustment reflects the establishment of a new pure grade molybdenum building block as discussed above. The Agency is also proposing to modify the flow allowance for the leach tailings building block from 12,540 to 19,511 liters per kkg technical grade and pure grade of molybdenum and vanadium produced. This second change reflects a recalculation of the average flows for this building block and the incorporation of new data.

### 3. Indicator Pollutants

In the final promulgated rule, the Agency indicated that molybdenum was considered to be an indicator pollutant for operation and removal efficiency of the model technology treatment chain as a whole (50 FR 38306, September 20, 1985). In response to concerns raised by petitioners, EPA has reviewed and reconsidered its earlier preamble statement on the status of molybdenum as an indicator pollutant. Based on this reconsideration, the EPA is clarifying today that the Agency does not consider molybdenum to be an indicator pollutant. Molybdenum is being regulated as a nonconventional pollutant because it is a principal metal produced in this subcategory.

### 4. Treatment Effectiveness Concentration for Molybdenum Removal

EPA is proposing amendments to the BPT and BAT limitations, NSPS, and PSNS for the secondary molybdenum and vanadium subcategory. EPA promulgated effluent limitations and standards based on iron coprecipitation as the model technology for molybdenum removal. The petitioners have raised technical concerns about the operating data upon which the model technology is based and the ability of that technology to achieve the molybdenum limitations promulgated for the secondary molybdenum and vanadium subcategory.

As part of the settlement, EPA is proposing to suspend the molybdenum limitations and standards for this subcategory to allow an opportunity to develop and gather additional data to address the technical concerns raised by petitioners in the secondary molybdenum and vanadium subcategory as well as in the metallurgical acid plant and the primary molybdenum and rhenium subcategories.

Due to the absence of specific iron coprecipitation data for this particular subcategory, EPA is unable to propose alternative treatment effectiveness concentrations for molybdenum for the secondary molybdenum and vanadium subcategory at this time. Petitioner does not have the model technology in place. However, it does have a solvent extraction system in operation which is capable of achieving molybdenum removal. Petitioner has expressed its belief to the Agency and supplied three months of chemical analysis data indicating that it can achieve a one-day maximum of 66.5 mg/l and a monthly average of 30 mg/l based on operating data from the existing solvent extraction system. Based on these representations,

any BPJ limitation should not be less stringent than this daily maximum and monthly average.

### (D) Secondary Precious Metals Subcategory (Subpart X)

#### 1. Regulatory Flows for the Preliminary Treatment ("PT") Building Block

EPA is today proposing to establish BPT and BAT limitations and NSPS, PSES, and PSNS for a new preliminary treatment (PT) building block for the secondary precious metals subcategory. The PT building block applies to the pretreatment of non-combustible, nonmetallic-based basis materials containing precious metals and is based on a production normalized flow of 50 liters per troy ounce of precious metals produced. This building block was not included in the promulgated rule because the Agency believed that the Furnace Wet Air Pollution Control (FWAPC) building block accounted for the flows generated by the preparatory processing of basis materials required before these materials can be introduced into the main hydrometallurgical refining system. Petitioners have indicated that while the FWAPC building block applies to the preparatory processing of certain carbon-based basis material through combustion in a furnace, it does not reflect the raw material processing steps required for non-combustible, non-metallic-based basis materials. Today's proposal addresses this aspect of the secondary precious metals manufacturing process and regulates the same pollutants as are regulated in the FWAPC building block. The flow basis for this proposal is based upon information that has been claimed confidential.

This proposal provides that the production normalizing parameter of the PT building block is troy ounces of precious metals produced. The production basis for assigning appropriate flows for this building block may also be calculated as the total of precious metals input into the building block less the amount of precious metals sent to offsite refiners. The Agency expects that either calculation will arrive at essentially the same production value.

#### 2. Change in Production Normalized Flow ("PNF")

EPA is proposing to modify the flow allowance for the palladium precipitation and filtration building block from 3.5 to 6.0 liters per troy ounce of precious metals produced. This change reflects a recalculation of the average flows for this building block and the incorporation of new data.

### 3. Changes in Applicability

EPA is proposing to amend the applicability provisions of the refinery wet air pollution control (RWAPC) building block to provide separate flow allowances for RWAPC acid and alkaline scrubbers at facilities with both types of scrubbers in operation. The RWAPC building block as promulgated was based upon data from facilities which use alkaline scrubbers for this process. Petitioners have indicated that the RWAPC step in their facilities requires the use of an acid scrubber as well. Today's proposal would modify the promulgated regulation to reflect this information. The promulgated production normalized parameters and flows for this building block would remain unchanged.

In response to an issue raised by petitioners, EPA is also clarifying the Agency's intent that the spent plating solution (SPS) building block applies to gold bearing stripping solutions received by a facility from off-site.

In addition, the Agency is clarifying that it considers the wastewater flows associated with the recovery of molybdenum from a molybdenum precious metal alloy to be outside the scope of this subpart. This pre-precious metal processing step creates the precious metal bearing residue which is then introduced into the precious metal building block process. Flows from secondary molybdenum recovery are regulated under the appropriate subcategory.

#### 4. Treatment Effectiveness Basis for Precious Metals Limitations

EPA is proposing to change the manner of regulating gold, platinum and palladium in the promulgated regulation from 0.1 mg/l (as the maximum for any day) for each of these pollutants to 0.3 mg/l for "combined metals" produced (as the maximum for any day). The term "combined metals" shall mean the sum of the measured amounts of gold, platinum and palladium. Petitioners have indicated that production is variable among these three precious metals depending in part upon whether high or low grade feed materials are used. Petitioners have also indicated concern about the analytical accuracy of certain chemical analysis procedures when used to detect these low levels of regulated precious metals. EPA's proposed change addresses both of these concerns. While the amount of any particular precious metal discharged may increase beyond 0.1 mg/liter, the total amount of precious metals allowed

to be discharged will not increase beyond 0.3 mg/liter.

*(E) Secondary Tungsten and Cobalt Subcategory (Subpart AC)*

**1. Treatment Effectiveness Concentration for Cobalt Removal**

EPA is proposing amendments to the BPT and BAT limitations and NSPS, PSES and PSNS for cobalt in the secondary tungsten and cobalt subcategory (tungsten-cobalt subcategory). EPA promulgated effluent limitations and standards based on cobalt removal using lime, settle and filter model technology. The treatment effectiveness value underlying these promulgated cobalt limits is based upon lime, settle and filter operating data from the porcelain enameling category. The petitioners indicated that the wastewater streams from the tungsten-cobalt subcategory cannot be treated to the same level as porcelain enameling because they contain significantly higher concentrations of complexed cobalt than were found in the porcelain enameling category.

Upon further review and analysis of the available data bearing on cobalt treatment effectiveness at the concentration levels and conditions found in the effluent from the tungsten-cobalt subcategory, the Agency has concluded that the long term average value of 0.03 mg/l used as the basis for the promulgated limitations is inappropriate for these wastewater streams. Therefore, EPA is proposing to establish a mass discharge allowance for wastewater from the tungsten-cobalt subcategory based upon a long term average cobalt treatment effectiveness value of 0.687 mg/l. The one day maximum for BAT from this long term average is 2.76 mg/l and the monthly average for BAT is 1.21 mg/l. The proposed treatment effectiveness concentration is based upon 30 days of lime settle and centrifuge data with associated TSS values supplied by the petitioner based upon the operation of a secondary tungsten and cobalt facility. The revised BPT for this pollutant is based on the assumption that lime and settlement treatment technology will be 30 percent less effective than the lime settle and centrifuge data.

*(F) Clarifications*

1. In addition to the changes to the regulatory sections described above, the Agency is clarifying the intent of Response No. 11 (Permit Writer Guidance) in Section IX of the preamble to the final regulation (50 FR 38325) by adding the following paragraph:

In developing site specific mass limits related to non-scope flows for nonferrous metals manufacturing for inclusion in a NPDES permit, the permit writer is encouraged to apply the treatment effectiveness concentrations used as the basis for establishing this regulation. However, the permit writer is not necessarily bound to use these concentrations as the basis for the mass limits and he may use other appropriate treatment effectiveness concentrations if the nature of the non-scope flows requires special consideration.

**IV. Environmental Impact of the Proposed Amendments to the Nonferrous Metals Forming Regulation**

Because of the limited nature of the proposed amendments described above only about 13 facilities are expected to be affected by these amendments. The nature of most of these changes is environmentally neutral because they neither substantially increase nor decrease the amounts of pollutants allowed to be discharged to the environment. For example, the suspension of the molybdenum limits is expected to be for only a short period while confirmative data is collected on the treatment effectiveness for this pollutant. Similarly, the division of one building block into two, the establishment of building blocks for operations that were originally expected to be regulated at the permit level and the summing of certain nonconventional metals into a single value are expected to cause no substantial change in the amount of pollutants allowed to be discharged to the environment. These amendments will allow the discharge of additional pollutants where the treatment effectiveness for a specific pollutant was amended (increased) or where the flow basis for the limitations and standards was revised upward. These changes are projected to allow the discharge of an additional 71.33 kg/yr (156.9 lbs/yr) of toxic pollutants and 2736.5 kg/yr (6020.3 lb/yr) of nonconventional pollutants. These quantities of pollutants are small compared to the estimated 340,800 kg/yr toxic pollutant removed by application of the (1985) regulation.

**V. Economic Impact of the Proposed Amendments**

The proposed amendments do not alter the model technologies for complying with the nonferrous metals forming regulation. The Agency considered the economic impact of the regulation when the final regulation was promulgated (see 50 FR 38276). EPA concluded at that time that the regulation was economically achievable. Since today's proposed amendments are based on the same model technologies,

EPA's conclusions as to economic impact and achievability are unaffected.

**VI. Solicitation of Comments**

EPA invites public participation in this rulemaking and requests comments on the proposed amendments discussed or set out in this notice. The Agency asks that comments be as specific as possible and that suggested revisions or corrections be supported by data.

**VII. Executive Order 12291**

Under Executive Order 12291, EPA must judge whether a regulation is "major" and therefore subject to the requirement of a Regulatory Impact Analysis. Major rules are defined as rules that impose an annual cost to the economy of \$100 million or more, or meet other economic criteria. This proposed regulation, which modestly reduces regulatory requirements, is not a major rule.

**VIII. Regulatory Flexibility Analysis**

Pub. L. 96-354 requires that EPA prepare a Regulatory Flexibility Analysis for regulations that have a significant impact on a substantial number of small entities. In the preamble to the August 23, 1985, final nonferrous metals forming regulation, the Agency concluded that there would not be a significant impact on a substantial number of small entities (49 FR 8775). For that reason, the Agency determined that a formal regulatory flexibility analysis was not required. That conclusion is equally applicable to these proposed amendments, since the amendments slightly reduce the regulatory requirements.

**IX. OMB Review**

This regulation was submitted to the Office of Management and Budget for review as required by Executive Order 12291. Any comments from OMB to EPA and any EPA response to those comments are available for public inspection at Room M2404, U.S. EPA, 401 M Street SW., Washington, DC 20460 from 9:00 a.m. to 4:00 p.m. Monday through Friday, excluding Federal holidays.

**List of Subjects in 40 CFR Part 421**

Metals, Nonferrous metals manufacturing, Water pollution control, Waste treatment and disposal.

Dated: March 24, 1989.  
William K. Reilly,  
Administrator.

For the reasons stated above, EPA proposes to amend 40 CFR Part 421 as follows:

**PART 421—NONFERROUS METALS MANUFACTURING POINT SOURCE CATEGORY**

1. The authority citation for Part 421 continues to read as follows:

Authority: Secs. 301, 304 (b), (c), (e), and (g), 306 (b) and (c), 307 (b) and (c), 308, and 501 of (the Federal Water Pollution Control Act, as amended (the "Act")) 33 U.S.C. 1251 1311, 1314 (b), (c), (e), and (g), 1316 (b) and (c), 1317 (b) and (c), and 1361; 86 Stat. 816, Pub. L. 92-500; 91 Stat. 1567, Pub. L. 95-217.

2. 40 CFR 421.3 is amended by adding new paragraph (b) to read as follows:

**§ 421.3 Monitoring and reporting requirements.**

(b) Periodic analyses for cyanide are not required for a facility in the primary beryllium subcategory (Subpart 0) when both of the following conditions are met:

(1) The first wastewater sample taken in each calendar year has been analyzed and found to contain less than 0.07 mg/l cyanide.

(2) The owner or operator of the primary beryllium manufacturing facility certifies in writing to the POTW authority or permit issuing authority that cyanide is neither generated nor used in the beryllium manufacturing process employed at that facility.

3. 40 CFR Part 421.93 is amended by revising the entry for molybdenum to read as follows:

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

**SUBPART I—METALLURGICAL ACID PLANT—BAT EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Molybdenum <sup>1</sup> .....	[Reserved] ...	[Reserved]

<sup>1</sup> For Molybdenum acid plants only.

4. 40 CFR Part 421.94 is amended by revising the entry for molybdenum to read as follows:

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

**SUBPART I—METALLURGICAL ACID PLANT—NSPS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Molybdenum <sup>1</sup> .....	[Reserved] ...	[Reserved]

<sup>1</sup> For Molybdenum acid plants only.

5. 40 CFR Part 421.96 is amended by revising the entry for molybdenum to read as follows:

**§ 421.96 Pretreatment standards for new sources.**

**SUBPART I—METALLURGICAL ACID PLANT—PSNS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Molybdenum <sup>1</sup> .....	[Reserved] ...	[Reserved]

<sup>1</sup> For Molybdenum acid plants only.

**§ 421.152 [Amended]**

6. 40 CFR 421.152(d) is amended by revising all of the values for Beryllium, Chromium (Total), Copper, Cyanide (Total) Ammonia (as N), Fluoride, and Total Suspended Solids to read as follows.

(d) Beryllium Hydroxide Filtrate.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Mg/kg (pounds per million pounds) of beryllium hydroxide produced as beryllium		
Beryllium.....	167.280	74.800
Chromium (Total),.....	59.840	24.480
Copper.....	258.400	136.000
Cyanide (Total).....	39.440	16.320
Ammonia (as N),.....	18,128.800	7,869.600
Fluoride,.....	4,760.000	2,706.400
Total Suspended Solids.....	5,576.000	2,652.000
pH.....		

7. 40 CFR 421.152(f) is amended by revising the entry for fluoride to read as follows:

(f) Beryllium Hydroxide Supernatant.

**BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Fluoride.....	160,308.0	71,201.0

8. 40 CFR 421.152 is amended by adding paragraphs (k) through (p) to read as follows:

(k) Beryl Ore Gangue Dewatering.

**BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Mg/kg (pounds per million pounds) of beryl ore processed		
Beryllium.....	1.283	0.574
Chromium (Total).....	0.459	0.188
Copper.....	1.982	1.043
Cyanide (Total).....	0.302	0.125
Ammonia (as N).....	139.032	61.120
Fluoride.....	36.505	20.756
Total Suspended Solids.....	42.783	20.339
pH.....	( <sup>1</sup> )	( <sup>1</sup> )

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

(1) Bertrandite Ore Gangue Dewatering.

**BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Mg/kg (pounds per million pounds) of bertrandite ore processed		
Beryllium.....	3.279	1.466
Chromium (Total).....	1.173	0.480
Copper.....	5.064	2.665
Cyanide (Total).....	0.773	0.320
Ammonia (as N).....	355.245	156.169
Fluoride.....	93.275	53.034
Total Suspended Solids.....	109.265	51.968
pH.....	( <sup>1</sup> )	( <sup>1</sup> )

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

(m) Beryl Ore Processing.

**BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryl ore processed	
Beryllium.....	8.983	4.017
Chromium (Total).....	3.213	1.315
Copper.....	13.876	7.303
Cyanide (Total).....	2.118	0.876
Ammonia (as N).....	973.490	427.956
fluoride.....	255.605	145.330
Total Suspended Solids.....	299.423	142.409
pH.....	(1)	(1)

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

**(n) Aluminum Iron Sludge (AIS) Area Wastewater.**

**BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of total beryllium carbonate produced as beryllium	
Beryllium.....	575.840	257.400
Chromium (Total).....	205.920	84.240
Copper.....	889.200	468.000
Cyanide (Total).....	135.720	58.160
Ammonia (as N).....	62384.400	27424.800
Fluoride.....	16380.000	9313.200
Total Suspended Solids.....	19188.000	9128.000
pH.....	(1)	(1)

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

**(o) Bertrandite Ore Leaching Scrubber.**

**BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg of bertrandite ore processed	
Beryllium.....	1.859	0.831
Chromium (Total).....	0.665	0.272
Copper.....	2.871	1.511
Cyanide (Total).....	0.438	0.181
Ammonia (as N).....	201.418	88.545
Fluoride.....	52.885	30.069
Total Suspended Solids.....	81.951	29.485
pH.....	(1)	(1)

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

**(p) Bertrandite Ore Countercurrent and Decantation (CCD) Scrubber.**

**BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg of bertrandite ore processed	
Beryllium.....	0.124	0.056
Chromium (Total).....	0.044	0.018
Copper.....	0.192	0.101
Cyanide (Total).....	0.029	0.012
Ammonia (as N).....	13.483	5.919
Fluoride.....	3.535	2.010
Total Suspended Solids.....	4.141	1.970
pH.....	(1)	(1)

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

**§ 421.153 [Amended]**

9. 40 CFR 421.153(d) is amended by revising paragraph (d) to read as follows:

\* \* \* \* \*

**(d) Beryllium Hydroxide Filtrate.**

**BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) or beryllium hydroxide produced as beryllium	
Beryllium.....	111.520	50.320
Chromium (Total).....	50.320	20.400
Copper.....	174.080	82.960
Cyanide (Total).....	27.200	10.880
Ammonia (as N).....	18128.800	7969.600
Fluoride.....	4760.000	2706.400

10. 40 CFR 421.153(f) is amended by revising the entry for fluoride to read as follows:

\* \* \* \* \*

**(f) Beryllium Hydroxide Supernatant.**

**BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium hydroxide produced from scrap and residues as beryllium	
Fluoride.....	160,308.0	71,201.0

11. 40 CFR 421.153 is amended by adding paragraphs (k) through (p) to read as follows:

\* \* \* \* \*

**(k) Beryl ore gangue dewatering.**

**BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryl ore processed	
Beryllium.....	0.855	0.388
Chromium (Total).....	0.386	0.156
Copper.....	1.335	0.636
Cyanide (Total).....	0.209	0.083
Ammonia (as N).....	139.032	61.120
Fluoride.....	36.505	20.756

**(l) Bertrandite Ore Gangue Dewatering.**

**BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of bertrandite ore processed	
Beryllium.....	2.185	0.988
Chromium (Total).....	0.988	0.400
Copper.....	3.411	1.628
Cyanide (Total).....	0.533	0.213
Ammonia (as N).....	355.245	156.169
Fluoride.....	93.275	53.034

**(m) Beryl Ore Processing.**

**BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryl ore processed	
Beryllium.....	5.988	2.702
Chromium (Total).....	2.702	1.095
Copper.....	9.348	4.455
Cyanide (Total).....	1.461	0.584
Ammonia (as N).....	973.490	427.956
Fluoride.....	255.605	145.330

**(n) Aluminum Iron Sludge (AIS) Area Wastewater.**

**BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of total beryllium carbonate produced as beryllium	
Beryllium.....	383.760	173.160
Chromium (Total).....	173.160	70.200
Copper.....	599.040	285.480
Cyanide (Total).....	93.600	37.440
Ammonia (as N).....	62384.400	27424.800
Fluoride.....	16380.000	9313.200

(o) Bertrandite Ore Leaching Scrubber.

**BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg of bertrandite ore processed	
Beryllium.....	1.239	0.559
Chromium (Total).....	0.559	0.227
Copper.....	1.934	0.922
Cyanide (Total).....	0.302	0.121
Ammonia (as N).....	201.416	88.545
Fluoride.....	52.885	30.069

(p) Bertrandite Ore Countercurrent and Decantation (CCD) Scrubber.

**BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg of bertrandite ore processed	
Beryllium.....	0.083	0.037
Chromium (Total).....	0.037	0.015
Copper.....	0.129	0.062
Cyanide (Total).....	0.020	0.008
Ammonia (as N).....	13.463	5.919
Fluoride.....	3.535	2.010

**§ 421.154 [Amended]**

12. 40 CFR 421.154(d) is amended by revising the entries for Beryllium, Chromium (Total), Copper, Cyanide (Total) Ammonia (as N), Fluoride, and Total Suspended Solids to read as follows.

(d) Beryllium Hydroxide Filtrate.

**NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium hydroxide produced as beryllium	
Beryllium.....	111.520	50.320
Chromium (Total).....	50.320	20.400
Copper.....	174.080	82.960
Cyanide (Total).....	27.200	10.880
Ammonia (as N).....	18,128.800	7,969.600
Fluoride.....	4,760.000	2,706.400
Total Suspended Solids.....		
Solids.....	2,040.000	1,632.000
pH.....		

13. 40 CFR 421.154(f) is amended by revising the entry for fluoride to read as follows:

\* \* \* \* \*

(f) Beryllium Hydroxide Supernatant.

**NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium hydroxide produced from scrap and residues as beryllium	
Fluoride.....	160,308.0	71,201.0

14. 40 CFR 421.154 is amended by adding paragraphs (k) through (p) to read as follows:

\* \* \* \* \*

(k) Beryl Ore Gangue Dewatering.

**NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryl ore processed	
Beryllium.....	0.855	0.386
Chromium (Total).....	0.386	0.156
Copper.....	1.335	0.638
Cyanide (Total).....	0.209	0.083
Ammonia (as N).....	139.032	61.120
Fluoride.....	36.505	20.756
Total Suspended Solids.....	15.645	12.516
pH.....	( <sup>1</sup> )	( <sup>1</sup> )

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

(l) Bertrandite Ore Gangue Dewatering.

**NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of bertrandite ore processed	
Beryllium.....	2.185	0.986
Chromium (Total).....	0.986	0.400
Copper.....	3.411	1.626
Cyanide (Total).....	0.533	0.213
Ammonia (as N).....	355.245	156.169
Fluoride.....	93.275	53.034
Total Suspended Solids.....	39.975	31.980
pH.....	( <sup>1</sup> )	( <sup>1</sup> )

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

(m) Beryl Ore Processing.

**NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryl ore processed	
Beryllium.....	5.988	2.702
Chromium (Total).....	2.702	1.095
Copper.....	9.348	4.455
Cyanide (Total).....	1.461	0.584
Ammonia (as N).....	973.490	427.956
Fluoride.....	255.605	145.330
Total Suspended Solids.....	109.545	87.636
pH.....	( <sup>1</sup> )	( <sup>1</sup> )

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

(n) Aluminum Iron Sludge (AIS) Area Wastewater.

**NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of total beryllium carbonate produced by beryllium	
Beryllium.....	383.760	173.160
Chromium (Total).....	173.160	70.200
Copper.....	599.040	285.480
Cyanide (Total).....	93.600	37.440
Ammonia (as N).....	62384.400	27424.800
Fluoride.....	16380.000	9313.200
Total Suspended Solids.....		
Solids.....	7020.000	5616.000
pH.....	( <sup>1</sup> )	( <sup>1</sup> )

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

(o) Bertrandite Ore Leaching Scrubber.

**NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
mg/kg of bertrandite ore processed		
Beryllium.....	1.239	0.559
Chromium (Total).....	0.559	0.227
Copper.....	1.934	0.922
Cyanide (Total).....	0.302	0.121
Ammonia (as N).....	201.416	88.545
Fluoride.....	52.885	30.069
Total Suspended Solids.....	22.665	18.132
pH.....	(1)	(1)

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

**(p) Bertrandite Ore Countercurrent and Decantation (CCD) Scrubber.**

**NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
mg/kg of bertrandite ore processed		
Beryllium.....	0.083	0.037
Chromium (Total).....	0.037	0.015
Copper.....	0.129	0.062
Cyanide (Total).....	0.020	0.008
Ammonia (as N).....	13.463	5.919
Fluoride.....	3.535	2.010
Total Suspended Solids.....	1.515	1.212
pH.....	(1)	(1)

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

**§ 421.156 [Amended]**

15. 40 CFR 421.156 is amended by revising paragraph (d) to read as follows:

\* \* \* \* \*

**(d) Beryllium Hydroxide Filtrate.**

**PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of beryllium hydroxide produced as beryllium		
Beryllium.....	111.520	50.320
Chromium (Total).....	50.320	20.400
Copper.....	174.080	82.960
Cyanide (Total).....	27.200	10.880
Ammonia (as N).....	18128.800	7969.600
Fluoride.....	4760.000	2706.400

16. 40 CFR 421.156(f) is amended by revising the entry for fluoride to read as follows:

\* \* \* \* \*

**(f) Beryllium Hydroxide Supernatant.**

**PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of beryllium hydroxide produced from scrap and residues as beryllium		
Fluoride.....	160,308.0	71,201.0

17. 40 CFR 421.156 is amended by adding paragraphs (k) through (p) to read as follows:

\* \* \* \* \*

**(k) Beryl Ore Gangue Dewatering**

**PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of beryl ore processed		
Beryllium.....	0.855	0.386
Chromium (Total).....	0.386	0.156
Copper.....	1.335	0.636
Cyanide (Total).....	0.209	0.083
Ammonia (as N).....	139.032	61.120
Fluoride.....	36.505	20.756

**(l) Bertrandite Ore Gangue Dewatering.**

**PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant for pollutant property	Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of bertrandite ore processed		
Beryllium.....	2.185	0.986
Chromium (Total).....	0.986	0.400
Copper.....	3.411	1.626
Cyanide (Total).....	0.533	0.213
Ammonia (as N).....	355.245	156.169
Fluoride.....	93.275	53.034

**(m) Beryl Ore Processing.**

**PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of beryl ore processed		
Beryllium.....	5.988	2.702
Chromium (Total).....	2.702	1.095
Copper.....	9.348	4.455
Cyanide (Total).....	1.461	0.584
Ammonia (as N).....	973.490	427.956
Fluoride.....	255.605	145.330

**(n) Aluminum Iron Sludge (AIS) Area Wastewater.**

**PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant for pollutant property	Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of total beryllium carbonate produced as beryllium		
Beryllium.....	383.760	173.160
Chromium (Total).....	173.160	70.200
Copper.....	599.040	285.480
Cyanide (Total).....	93.600	37.440
Ammonia (as N).....	62384.400	27424.800
Fluoride.....	16380.000	9313.200

**(o) Bertrandite Ore Leaching Scrubber.**

**PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY**

Pollutant or Pollutant property	Maximum for any 1 day	Maximum for monthly average
mg/kg of bertrandite ore processed		
Beryllium.....	1.239	0.559
Chromium (Total).....	0.559	0.227
Copper.....	1.934	0.922
Cyanide (Total).....	0.302	0.121
Ammonia (as N).....	201.416	88.545
Fluoride.....	52.885	30.069

**(p) Bertrandite Ore Countercurrent and Decantation (CCD) Scrubber.**

Pollutant for pollutant property	Maximum for any 1 day	Maximum for monthly average
mg/kg of bertrandite ore processed		
Beryllium.....	0.083	0.037
Chromium (Total).....	0.037	0.015

Pollutant for pollutant property	Maximum for any 1 day	Maximum for monthly average
Copper .....	0.129	0.062
Cyanide (Total) .....	0.020	0.008
Ammonia (as N) .....	13.463	5.919
Fluoride .....	3.535	2.010

18. 40 CFR Part 421.212(a) is amended by revising the entry for molybdenum to read as follows:

(a) Molybdenum sulfide leachate.

**BPT LIMITATIONS FOR THE PRIMARY MOLYBDENUM RHENIUM SUBCATEGORY**

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

**§ 421.212 [Amended]**

19. 40 CFR Part 421.212(b) is amended by revising the entry for molybdenum to read as follows:

(b) Roaster SO<sub>2</sub> scrubber.

**BPT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Molybdenum .....	[Reserved] .....	[Reserved] .....

20. 40 CFR Part 421.212(c) is amended by revising the entry for molybdenum to read as follows:

(c) Molybdic oxide leachate.

**BPT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Molybdenum .....	[Reserved] .....	[Reserved] .....

21. 40 CFR Part 421.212(d) is amended by revising the entry for molybdenum to read as follows:

(d) Hydrogen reduction furnace scrubber.

**BPT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Molybdenum .....	[Reserved] .....	[Reserved] .....

22. 40 CFR Part 421.212(e) is amended by revising the entry for molybdenum to read as follows:

(e) Depleted rhenium scrubbing solution.

**BPT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Molybdenum .....	[Reserved] .....	[Reserved] .....

**§ 421.213 [Amended]**

23. 40 CFR Part 421.213(a) is amended by revising the entry for molybdenum to read as follows:

(a) Molybdenum sulfide leachate.

**BPT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Molybdenum .....	[Reserved] .....	[Reserved] .....

24. 40 CFR Part 421.213(b) is amended by revising the entry for molybdenum to read as follows:

(b) Roaster SO<sub>2</sub> scrubber.

**BPT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Molybdenum .....	[Reserved] .....	[Reserved] .....

25. 40 CFR Part 421.213(c) is amended by revising the entry for molybdenum to read as follows:

(c) Molybdic oxide leachate.

**BAT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Molybdenum .....	[Reserved] .....	[Reserved] .....

26. 40 CFR Part 421.213(d) is amended by revising the entry for molybdenum to read as follows:

(d) Hydrogen reduction furnace scrubber.

**BAT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Molybdenum .....	[Reserved] .....	[Reserved] .....

27. 40 CFR Part 421.213(e) is amended by revising the entry for molybdenum to read as follows:

(e) Depleted rhenium scrubbing solution.

**BAT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Molybdenum .....	[Reserved] .....	[Reserved] .....

**§ 421.214 [Amended]**

28. 40 CFR Part 421.214(a) is amended by revising the entry for molybdenum to read as follows:

(a) Molybdenum sulfide leachate.

**NSPS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Molybdenum .....	[Reserved] .....	[Reserved] .....

29. 40 CFR Part 421.214(b) is amended by revising the entry for molybdenum to read as follows:

(b) Roaster SO<sub>2</sub> scrubber.

NSPS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Molybdenum .....	[Reserved] ...	[Reserved].

30. 40 CFR Part 421.214(c) is amended by revising the entry for molybdenum to read as follows:

(c) Molybdic oxide leachate.

NSPS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Molybdenum .....	[Reserved] ...	[Reserved].

31. 40 CFR Part 421.214(d) is amended by revising the entry for molybdenum to read as follows:

(d) Hydrogen reduction furnace scrubber.

NSPS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Molybdenum .....	[Reserved] ...	[Reserved].

32. 40 CFR Part 421.214(e) is amended by revising the entry for molybdenum to read as follows:

(e) Depleted rhenium scrubbing solution.

NSPS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Molybdenum .....	[Reserved] ...	[Reserved].

§ 421.216 [Amended]

33. 40 CFR Part 421.216(a) is amended

by revising the entry for molybdenum to read as follows:

(a) Molybdenum sulfide leachate.

PSNS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Molybdenum .....	[Reserved] ...	[Reserved].

34. 40 CFR Part 421.216(b) is amended by revising the entry for molybdenum to read as follows:

(b) Roaster SO<sub>2</sub> scrubber.

PSNS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Molybdenum .....	[Reserved] ...	[Reserved].

35. 40 CFR Part 421.216(c) is amended by revising the entry for molybdenum to read as follows:

(c) Molybdic oxide leachate.

PSNS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Molybdenum .....	[Reserved] ...	[Reserved].

36. 40 CFR Part 421.216(d) is amended by revising the entry for molybdenum to read as follows:

(d) Hydrogen reduction furnace scrubber.

PSNS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Molybdenum .....	[Reserved] ...	[Reserved].

37. 40 CFR Part 421.216(e) is amended by revising the entry for molybdenum to read as follows:

(e) Depleted rhenium scrubbing solution.

PSNS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Molybdenum .....	[Reserved] ...	[Reserved].

§ 421.222 [Amended]

38. 40 CFR 421.222(a) is amended by revising all of the values for Arsenic, Chromium, Lead, Nickel, Iron, Molybdenum, Ammonia (as N), Fluoride, and Total Suspended Solids to read as follows.

(a) Leach tailings.

BPT LIMITATIONS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Arsenic.....	40.778	18.145
Chromium.....	8.585	3.512
Lead.....	8.195	3.902
Nickel.....	37.460	24.779
Iron.....	23.410	11.902
Molybdenum.....	( <sup>2</sup> )	( <sup>2</sup> )
Ammonia (as N).....	8078.000	3551.000
Total Suspended Solids.....	799,950	380.460
pH.....		

mg/kg (pounds per million pounds) of technical grade molybdenum plus vanadium plus pure grade molybdenum produced

\* [Reserved].

39. 40 CFR 421.222(b) is amended by revising all of the values for Arsenic, Chromium, Lead, Nickel, Iron, Molybdenum, Ammonia (as N), Fluoride, and Total Suspended Solids to read as follows:

(b) Molybdenum filtrate solvent extraction raffinate.

**BPT LIMITATIONS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUB-CATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of technical grade molybdenum plus vanadium plus pure grade molybdenum produced		
Arsenic.....	121.720	54.162
Chromium.....	25.625	10.483
Lead.....	24.480	11.648
Nickel.....	111.819	73.964
Iron.....	69.887	35.526
Molybdenum.....	(*)	(*)
Ammonia (as N).....	24114.000	10600.000
Total Suspended Solids.....	2387.800	1135.660
pH.....		

\* [Reserved].

40. Section 40 CFR 421.222 is amended by adding new paragraph (e) to read as follows:

(e) Pure Grade Molybdenum.

**BPT LIMITATIONS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUB-CATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of pure molybdenum produced		
Arsenic.....	48.655	21.650
Chromium.....	10.243	4.190
Lead.....	9.778	4.656
Nickel.....	44.698	29.566
Iron.....	27.936	14.201
Molybdenum.....	(*)	(*)
Ammonia (as N).....	9638.000	4237.000
Total Suspended Solids.....	954.480	453.960
pH.....	(1)	(1)

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

\* [Reserved].

**§ 421.223 [Amended]**

41. Section 40 CFR 421.223(a) is revised to read as follows:

(a) Leach tailings.

**BAT LIMITATIONS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUB-CATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of technical grade molybdenum plus vanadium plus pure grade molybdenum produced		
Arsenic.....	27.120	12.097
Chromium.....	7.219	2.927
Lead.....	5.463	2.536
Nickel.....	10.731	7.219
Iron.....	23.413	11.902
Molybdenum.....	(1)	(1)
Ammonia (as N).....	8078.000	3551.000

<sup>1</sup> [Reserved].

42. Section 40 CFR 421.223(b) is revised to read as follows:

(b) Molybdenum filtrate solvent extraction reaffinate.

**BAT LIMITATIONS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUB-CATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of technical grade molybdenum plus vanadium plus pure grade molybdenum produced		
Arsenic.....	80.952	36.108
Chromium.....	21.548	8.736
Lead.....	16.306	7.571
Nickel.....	32.031	21.548
Iron.....	69.887	35.526
Molybdenum.....	(1)	(1)
Ammonia (as N).....	24114.000	10600.000

<sup>1</sup> [Reserved].

43. Section 40 CFR 421.223 is amended by adding new paragraph (e) to read as follows:

(e) Pure Grade Molybdenum.

**BAT LIMITATIONS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUB-CATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of pure molybdenum produced		
Arsenic.....	32.359	14.434
Chromium.....	8.614	3.492
Lead.....	6.518	3.026
Nickel.....	12.804	8.614
Iron.....	27.936	14.201
Molybdenum.....	(1)	(1)
Ammonia (as N).....	9638.000	4237.000

<sup>1</sup> [Reserved].

**§ 421.224 [Amended]**

44. 40 CFR 421.224(a) is amended by revising all of the values for Arsenic, Chromium, Lead, Nickel, Iron, Molybdenum, Ammonia (as N), Fluoride, and Total Suspended Solids to read as follows:

(a) Leach Tailings.

**NSPS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Mg/kg (pounds per million pounds) of technical grade molybdenum plus vanadium plus pure grade molybdenum produced		
Arsenic.....	27.120	12.097
Chromium.....	7.219	2.927
Lead.....	5.463	2.536
Nickel.....	10.731	7.219
Iron.....	23.413	11.902
Molybdenum.....	(*)	(*)
Ammonia (as N).....	8078.000	3551.000
Total Suspended Solids.....	292.665	234.132
pH.....		

\* [Reserved].

45. 40 CFR 421.224(b) is amended by revising all of the values for Arsenic, Chromium, Lead, Nickel, Iron, Molybdenum, Ammonia (as N), Fluoride,

and Total Suspended Solids to read as follows:

(b) Molybdenum filtrate solvent extraction raffinate.

**NSPS THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Mg/kg (pounds per million pounds) of technical grade molybdenum plus vanadium plus pure grade molybdenum produced		
Arsenic .....	80.952	36.108
Chromium .....	21.548	8.736
Lead .....	16.306	7.571
Nickel .....	32.031	21.548
Iron .....	69.887	35.526
Molybdenum .....	( <sup>2</sup> )	( <sup>2</sup> )
Ammonia (as N) .....	24114.000	10600.000
Total Suspended Solids .....	873.585	698.868
pH .....		

\* [Reserved]

46. Section 40 CFR 421.224 is amended by adding new paragraph (e) to read as follows:

(e) Pure Grade Molybdenum.

**NSPS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY**

Pollutant or Pollutant Property	Maximum for Any One Day	Maximum for Monthly Average
mg/kg (pounds per million pounds) of pure molybdenum produced		
Arsenic .....	32.359	14.434
Chromium .....	8.614	3.492
Lead .....	6.518	3.026
Nickel .....	12.804	8.614
Iron .....	27.936	14.201
Molybdenum .....	( <sup>2</sup> )	( <sup>2</sup> )
Ammonia (as N) .....	9638.000	4237.000
Total Suspended Solids .....	349.200	279.360
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.  
\* [Reserved]

**§ 421.226 [Amended]**

47. Section 40 CFR 421.226(a) is revised to read as follows:

(a) Leach tailings.

**PSNS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY**

Pollutant or Pollutant Property	Maximum for Any One Day	Maximum for Monthly Average
mg/kg (pounds per million pounds) of technical grade molybdenum plus vanadium plus pure grade molybdenum produced		
Arsenic .....	27.120	12.097
Chromium .....	7.219	2.927
Lead .....	5.463	2.536
Nickel .....	10.731	7.219
Iron .....	23.413	11.902
Molybdenum .....	( <sup>1</sup> )	( <sup>1</sup> )
Ammonia (as N) .....	8078.000	3551.000

\* [Reserved]

48. Section 40 CFR 421.226(b) is revised to read as follows:

(b) Molybdenum filtrate solvent extraction raffinate.

**PSNS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY**

Pollutant or Pollutant Property	Maximum for Any One Day	Maximum for Monthly Average
mg/kg (pounds per million pounds) of technical grade molybdenum plus vanadium plus pure grade molybdenum produced		
Arsenic .....	80.952	36.108
Chromium .....	21.548	8.736
Lead .....	16.306	7.571
Nickel .....	32.031	21.548
Iron .....	69.887	35.526
Molybdenum .....	( <sup>1</sup> )	( <sup>1</sup> )
Ammonia (as N) .....	24114.000	10600.000

\* [Reserved]

49. Section 40 CFR 421.226 is amended by adding new paragraph (e) to read as follows:

(e) Pure Grade Molybdenum.

**PSNS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY**

Pollutant or Pollutant Property	Maximum for Any One Day	Maximum for Monthly Average
mg/kg (pounds per million pounds) of pure molybdenum produced		
Arsenic .....	32.359	14.434
Chromium .....	8.614	3.492
Lead .....	6.518	3.026

**PSNS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY—Continued**

Pollutant or Pollutant Property	Maximum for Any One Day	Maximum for Monthly Average
Nickel .....	12.804	8.614
Iron .....	27.936	14.201
Molybdenum .....	( <sup>1</sup> )	( <sup>1</sup> )
Ammonia (as N) .....	9638.000	4237.000

\* [Reserved]

50. Section 40 CFR 421.261 is amended by adding paragraph (c) to read:

**§ 421.261 Specialized definitions.**

(c) the term "Combined metals" shall mean the total of gold, platinum and palladium.

**§ 421.262 [Amended]**

51. 40 CFR Part 421.262(a) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

(a) Furnace Wet Air Pollution Control.

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

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals .....	21.54	

52. 40 CFR Part 421.262(b) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

(b) Raw Material Granulation.

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

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals .....	1.902	

53. 40 CFR Part 421.262(c) is amended by removing the entries for gold,

platinum and palladium and adding the entry "combined metals" to read as follows:

(c) Spent Plating Solutions.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals .....	0.300	

54. 40 CFR Part 421.262(d) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

(d) Spent Cyanide Stripping Solutions.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals .....	1.110	

55. 40 CFR Part 421.262(e) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals"; a footnote 1 is added to read as follows:

(e) Refinery Wet Air Pollution Control.<sup>1</sup>

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals .....	6.300	

<sup>1</sup> This 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.

56. 40 CFR Part 421.262(f) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

(f) Gold Solvent Extraction Raffinate and Wash Water.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals .....	0.189	

57. 40 CFR Part 421.262(g) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

(g) Gold Spent Electrolyte.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals .....	0.003	

58. 40 CFR Part 421.262(h) is amended by removing the entry for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

(h) Gold Precipitation and Filtration.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals .....	1.320	

59. 40 CFR Part 421.262(i) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

(i) Platinum Precipitation and Filtration.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals .....	1.560	

60. 40 CFR Part 421.262(j) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals"; the entries copper, cyanide, zinc, ammonia and total suspended solids are revised to read as follows:

(j) Palladium Precipitation and Filtration.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Copper .....	11.400	6.000
Cyanide (total) .....	1.740	0.720
Zinc .....	8.760	3.660
Ammonia (as N) .....	799.800	351.6700
Combined metals .....	1.800	
Total suspended solids .....	248.000	117.000
pH .....		

61. 40 CFR Part 421.262(k) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

(k) Other Platinum Group Metals Precipitation and Filtration.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals .....	1.560	

62. 40 CFR Part 421.262(l) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

(l) Spent Solution from PGC Salt Production.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals .....	0.270	

63. 40 CFR Part 421.262(m) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(m) Equipment and Floor Wash.

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

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	0.000	0.000

64. 40 CFR 421.262 is amended by adding a new paragraph (n) to read as follows:

\* \* \* \* \*

(n) Preliminary treatment.

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

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	0.000	0.000

	mg/troy ounce of total metals produced through this operation	ounce of precious metals produced through this operation
Copper.....	95.000	50.000
Cyanide (total).....	14.500	6.000
Zinc.....	73.000	30.500
Ammonia (as N).....	6665.000	2930.000
Combined metals.....	15.000	
Total suspended solids.....	2050.000	975.000
pH.....	(1)	(1)

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

**§ 421.263 [Amended]**

65. 40 CFR Part 421.263(a) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(a) Furnace Wet Air Pollution Control.

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

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	1.350	

66. 40 CFR Part 421.263(b) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(b) Raw material granulation.

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

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	0.192	

67. 40 CFR Part 421.263(c) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(c) Spent Plating Solutions.

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

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	0.300	

68. 40 CFR Part 421.263(d) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(d) Spent Cyanide Stripping Solutions.

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

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	1.110	

69. 40 CFR Part 421.263(e) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals"; a footnote 1 is added to read as follows:

\* \* \* \* \*

(e) Refinery Wet Air Pollution Control.<sup>1</sup>

<sup>1</sup> This allowance applies to either acid or alkaline wet air pollution control scrubbers. If both acid and alkaline wet air pollution control scrubbers are

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

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	0.300	

70. 40 CFR Part 421.263(f) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(f) Gold Solvent Extraction Raffinate and Wash Water.

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

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	0.189	

71. 40 CFR 421.263(g) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(g) Gold Spent Electrolyte.

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

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	0.0030	

72. 40 CFR 421.263(h) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(h) Gold Precipitation and Filtration.

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

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	1.320	

present in a particular facility the same allowance applies to each.

73. 40 CFR 421.263(i) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:  
\* \* \* \* \*

(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
Combined metals.....	1.560	

74. 40 CFR 421.263 is amended by revising paragraph (j) to read as follows:  
\* \* \* \* \*

(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

75. 40 CFR 421.263(k) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:  
\* \* \* \* \*

(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
Combined metals.....	1.560	

76. 40 CFR Part 421.263(1) is amended by removing the entries for gold, platinum and palladium and adding the

entry "combined metals" to read as follows:  
\* \* \* \* \*

(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
Combined metals.....	0.270	

77. 40 CFR Part 421.263(m) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:  
\* \* \* \* \*

(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
Combined metals.....	0.000	

78. 40 CFR Part 421.263 is amended by adding a new paragraph (n) to read as follows:  
(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	30.000
Cyanide (total).....	10.000	4.000
Zinc.....	51.000	21.000
Combined metals.....	15.000	
Ammonia (as N).....	6665.000	2930.000

**§ 421.264 [Amended]**

79. 40 CFR Part 421.264(a) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:  
\* \* \* \* \*

(a) Furnace Wet Air Pollution Control.

**NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
Combined metals.....	1.350	

80. 40 CFR Part 421.264(b) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:  
\* \* \* \* \*

(b) Raw Material Granulation.

**NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 dDay	Maximum for Monthly Average
Combined metals.....	0.192	

81. 40 CFR Part 421.264(c) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:  
\* \* \* \* \*

(c) Spent Plating Solutions.

**NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	0.300	

82. 40 CFR Part 421.264(d) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:  
\* \* \* \* \*

(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
Combined metals.....	1.11	

83. 40 CFR Part 421.264(e) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals"; a footnote 1 is added to read as follows:

\* \* \* \* \*

(e) Refinery Wet Air Pollution Control.<sup>1</sup>

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	0.300	

<sup>1</sup> This 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.

84. 40 CFR Part 421.264(f) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(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
Combined metals.....	0.189	

85. 40 CFR Part 421.264(g) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(g) Gold Spent Electrolyte.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	0.003	

86. 40 CFR Part 421.264(h) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(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
Combined metals.....	1.320	

87. 40 CFR Part 421.264(i) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(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
Combined metals.....	1.560	

88. 40 CFR Part 421.264 is amended by revising paragraph (j) to read as follows:

\* \* \* \* \*

(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.....	8.120	2.520
Combined metals.....	1.800	
Ammonia (as N).....	799.800	351.600
Total suspended solids..	90.000	72.000
pH.....	( <sup>1</sup> )	( <sup>1</sup> )

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

89. 40 CFR Part 421.264(k) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(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
Combined metals.....	1.560	

90. 40 CFR Part 421.264(l) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(l) Spent Solutions from PGC Salt Production.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	0.270	

91. 40 CFR Part 421.264(m) is amended by removing the entries for gold, platinum and palladium and substituting the entry "combined metals" to read as follows:

\* \* \* \* \*

(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
Combined metals.....	0.000	0.000

92. 40 CFR 421.264 is amended by adding a new paragraph (n) to read as follows:

\* \* \* \* \*

(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	

**NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY—Continued**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Ammonia (as N).....	6665.000	2930.000
Total suspended solids..	750.000	600.000
pH.....	( <sup>1</sup> )	( <sup>1</sup> )

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

**§ 421.265 [Amended]**

93. 40 CFR Part 421.265(a) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(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
Combined metals.....	1.350	

94. 40 CFR Part 421.265(b) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(b) Raw Material Granulation.

**PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	0.192	

95. 40 CFR Part 421.265(c) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(c) Spent Plating Solutions.

**PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	0.003	

96. 40 CFR Part 421.265(d) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(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
Combined metals.....	1.110	

97. 40 CFR Part 421.265(e) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals"; a footnote 1 is added to read as follows:

\* \* \* \* \*

(e) Refinery Wet Air Pollution Control <sup>1</sup>.

**PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	0.300	

\* \* \* \* \*

98. 40 CFR Part 421.265(f) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(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
Combined metals.....	0.189	

99. 40 CFR Part 421.265(g) is amended

<sup>1</sup> This 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.

by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(g) Gold Spent Electrolyte.

**PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	0.063	

100. 40 CFR Part 421.265(h) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(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
Combined metals.....	1.320	

101. 40 CFR Part 421.265(i) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(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
Combined metals.....	1.560	

102. 40 CFR Part 421.265 is amended by revising paragraph (j) to read as follows:

\* \* \* \* \*

(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

103. 40 CFR Part 421.265(k) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

(k) Other Palladium 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
.....	.....	.....
.....	.....	.....
Combined metals.....	1.560	.....

104. 40 CFR Part 421.265(l) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

(l) Spent Solution from PGC Salt Production.

**PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
.....	.....	.....
.....	.....	.....
Combined metals.....	0.270	.....

105. 40 CFR Part 421.265(m) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

**(m) Equipment and Floor Wash.**

**PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
.....	.....	.....
.....	.....	.....
Combined metals.....	0.000	0.000

106. 40 CFR 421.265 is amended by adding a new paragraph (n) to read as follows:

(n) Preliminary treatment.

**PSES 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	30.600
Cyanide (total).....	10.000	4.000
Zinc.....	51.000	21.000
Combined metals.....	15.000	.....
Ammonia (as N).....	6665.000	2930.000

**§ 421.266 [Amended]**

107. 40 CFR Part 421.266(a) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

(a) Furnace Wet Air Pollution Control.

**PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
.....	.....	.....
.....	.....	.....
Combined metals.....	1.350	.....

108. 40 CFR Part 421.266(b) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

**(b) Raw Material Granulation.**

**PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
.....	.....	.....
.....	.....	.....
Combined metals.....	0.192	.....

109. 40 CFR Part 421.266(c) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

(c) Spent Plating Solutions.

**PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
.....	.....	.....
.....	.....	.....
Combined metals.....	0.300	.....

110. 40 CFR Part 421.266(a) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

(d) Spent Cyanide Stripping Solutions.

**PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
.....	.....	.....
.....	.....	.....
Combined metals.....	1.110	.....

111. 40 CFR Part 421.266(e) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals"; a footnote 1 is added to read as follows:

(e) Refinery Wet Air Pollution Control <sup>1</sup>.

**PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	0.300	

<sup>1</sup> This 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.

112. 40 CFR Part 421.266(f) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(f) Gold Solvent Extraction Raffinate and Wash Water.

**PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	0.189	

113. 40 CFR Part 421.266(g) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(g) Gold Spent Electrolyte.

**PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	0.003	

114. 40 CFR Part 421.266(f) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(h) Gold Precipitation and Filtration.

**PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	1.320	

115. 40 CFR Part 421.266(i) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(i) Platinum Precipitation and Filtration.

**PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	1.560	

116. 40 CFR Part 421.266(i) is amended by revising paragraph (j) to read as follows:

\* \* \* \* \*

(j) Palladium Precipitation and Filtration.

**PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	mg/troy ounce of palladium precipitated	
	Maximum for any 1 day	Maximum for monthly average
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

117. 40 CFR Part 421.266(k) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(k) Other Platinum Group Metals Precipitation and Filtration.

**PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	1.560	

118. 40 CFR Part 421.266(l) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(l) Spent Solution from PGC Salt Production.

**PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	0.270	

119. 40 CFR Part 421.266(m) is amended by removing the entries for gold, platinum and palladium and adding the entry "combined metals" to read as follows:

\* \* \* \* \*

(m) Equipment and Floor Wash.

**PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals.....	0.000	0.000

120. 40 CFR Part 421.266 is amended by adding a new paragraph (n) to read as follows:

\* \* \* \* \*

(n) Preliminary treatment.

**PSNS 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

121. 40 CFR Part 421.312(a) is amended by revising the entry for cobalt to read as follows:

(a) Tungsten detergent wash and rinse.

**BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt .....	0.768	0.337

122. 40 CFR Part 421.312(b) is amended by revising the entry for cobalt to read as follows:

(b) Tungsten leaching acid.

**BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt .....	10.130	4.448

123. 40 CFR Part 421.312(c) is amended by revising the entry for cobalt to read as follows:

(c) Tungsten post leaching wash and rinse.

**BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt .....	20.263	8.897

124. 40 CFR Part 421.312(d) is amended by revising the entry for cobalt to read as follows:

(d) Synthetic scheelite filtrate.

**BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt .....	65.644	28.824

125. 40 CFR Part 421.312(e) is amended by revising the entry for cobalt to read as follows:

(e) Tungsten carbide leaching wet air pollution control.

**BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt .....	6.899	3.029

126. 40 CFR Part 421.312(f) is amended by revising the entry for cobalt to read as follows:

(f) Tungsten carbide wash water.

**BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt .....	32.832	14.416

127. 40 CFR Part 421.312(g) is amended by revising the entry for cobalt to read as follows:

(g) Cobalt sludge leaching wet air pollution control.

**BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt .....	140.977	61.901

128. 40 CFR Part 421.312(h) is amended by revising the entry for cobalt to read as follows:

(h) Crystallization decant.

**BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt .....	164.101	72.055

129. 40 CFR Part 421.312(i) is amended by revising the entry for cobalt to read as follows:

(i) Acid ash decant.

**BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt .....	75.104	32.977

130. 40 CFR Part 421.312(j) is amended by revising the entry for cobalt to read as follows:

(j) Cobalt hydroxide filtrate.

**BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt .....	223.189	97.999

131. 40 CFR Part 421.312(k) is amended by revising the entry for cobalt to read as follows:

(k) Cobalt hydroxide filter cake wash.

**BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt .....	429.598	188.631

**§ 421.213 [Amended]**

132. 40 CFR Part 421.313(a) is amended by revising the entry for cobalt to read as follows:

(a) Tungsten detergent wash and rinse.

**BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	0.538	0.236

133. 40 CFR Part 421.313(b) is amended by revising the entry for cobalt to read as follows:

(b) Tungsten leaching acid.

**BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	7.096	3.111

134. 40 CFR Part 421.313(c) is amended by revising the entry for cobalt to read as follows:

(c) Tungsten post leaching wash and rinse.

**BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	14.194	6.223

135. 40 CFR Part 421.313(d) is amended by revising entry for cobalt to read as follows:

(d) Synthetic scheelite filtrate.

**BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	45.984	20.160

136. 40 CFR Part 421.313(e) is amended by revising the entry for cobalt to read as follows:

(e) Tungsten carbide leaching wet air pollution control.

**BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	4.833	2.119

137. 40 CFR Part 421.313(f) is amended by revising the entry for cobalt to read as follows:

(f) Tungsten carbide wash water.

**BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	22.999	10.083

138. 40 CFR Part 421.313(g) is amended by revising the entry for cobalt to read as follows:

(g) Cobalt sludge leaching wet air pollution control.

**BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	98.756	43.295

139. 40 CFR Part 421.313(h) is amended by revising the entry for cobalt to read as follows:

(h) Crystallization decant.

**BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	114.954	50.397

140. 40 CFR Part 421.313(i) is amended by revising the entry for cobalt to read as follows:

(i) Acid wash decant.

**BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	52.611	23.065

141. 40 CFR Part 421.313(j) is amended by revising the entry for cobalt to read as follows:

(j) Cobalt hydroxide filtrate.

**BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	156.346	68.543

142. 40 CFR Part 421.313(k) is amended by revising the entry for cobalt to read as follows:

(k) Cobalt hydroxide filter cake wash.

**BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	300.094	131.094

**§ 421.314 [Amended]**

143. 40 CFR Part 421.314(a) is amended by revising the entry both for cobalt to read as follows:

(a) Tungsten detergent wash and rinse.

**NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	0.538	0.236

144. 40 CFR Part 421.314(b) is amended by revising the entry for cobalt to read as follows:

\* \* \* \* \*  
 (b) Tungsten leaching acid.  
 NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	7.096	3.111

145. 40 CFR Part 421.314(c) is amended by revising the entry for cobalt to read as follows:

\* \* \* \* \*  
 (c) Tungsten post leaching wash and rinse.  
 NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	14.194	6.223

146. 40 CFR Part 421.314(d) is amended by revising the entry for cobalt to read as follows:

\* \* \* \* \*  
 (d) Synthetic scheelite filtrate.  
 NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	45.984	20.160

147. 40 CFR Part 421.314(e) is amended by revising the entry for cobalt to read as follows:

\* \* \* \* \*  
 (e) Tungsten carbide leaching wet air pollution control.  
 NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	4.833	2.119

148. 40 CFR Part 421.314(f) is amended by revising the entry for cobalt to read as follows:

\* \* \* \* \*  
 (f) Tungsten carbide wash water.  
 NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	22.999	10.083

149. 40 CFR Part 421.314(g) is amended by revising the entry for cobalt to read as follows:

\* \* \* \* \*  
 (g) Cobalt sludge leaching wet air pollution control.  
 NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	98.756	43.295

150. 40 CFR Part 421.314(h) is amended by revising the entry for cobalt to read as follows:

\* \* \* \* \*  
 (h) Crystallization decant.  
 NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	114.954	50.397

151. 40 CFR Part 421.314(i) is amended by revising the entry for cobalt to read as follows:

\* \* \* \* \*  
 (i) Acid wash decant.  
 NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	52.611	23.065

152. 40 CFR Part 421.314(j) is amended by revising the entry for cobalt to read as follows:

\* \* \* \* \*  
 (j) Cobalt hydroxide filtrate.  
 NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	156.346	68.543

153. 40 CFR Part 421.314(k) is amended by revising the entry for cobalt to read as follows:

\* \* \* \* \*  
 (k) Cobalt hydroxide filter cake wash.  
 NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	300.094	131.932

§ 421.315 [Amended]  
 154. 40 CFR Part 421.315(a) is amended by revising the entry for cobalt to read as follows:

\* \* \* \* \*  
 (a) Tungsten detergent wash and rinse.  
 PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	0.538	0.236

155. 40 CFR Part 421.315(b) is amended by revising the entry for cobalt to read as follows:

\* \* \* \* \*  
 (b) Tungsten leaching acid.  
 PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	7.096	3.111

156. 40 CFR Part 421.315(c) is amended by revising the entry for cobalt to read as follows:

\* \* \* \* \*

(c) Tungsten post leaching wash and rinse.

**PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	14.194	6.223

157. 40 CFR Part 421.315(d) is amended by revising the entry for cobalt to read as follows:

\* \* \* \* \*

(d) Synthetic scheelite filtrate.

**PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	45.984	20.160

158. 40 CFR Part 421.315(e) is amended by revising the entry for cobalt to read as follows:

\* \* \* \* \*

(e) Tungsten carbide leaching wet air pollution control.

**PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	4.833	2.119

159. 40 CFR Part 421.315(f) is amended by revising the entry for cobalt to read as follows:

\* \* \* \* \*

(f) Tungsten carbide wash water.

**PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	22.999	10.083

160. 40 CFR Part 421.315(g) is amended by revising the entry for cobalt to read as follows:

\* \* \* \* \*

(g) Cobalt sludge leaching wet air pollution control.

**PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	98.756	43.295

161. 40 CFR Part 421.315(h) is amended by revising the entry for cobalt to read as follows:

\* \* \* \* \*

(h) Crystallization decant.

**PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	114.954	50.397

162. 40 CFR Part 421.315(i) is amended by revising the entry for cobalt to read as follows:

\* \* \* \* \*

(i) Acid wash decant.

**PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	52.611	23.065

163. 40 CFR Part 421.315(j) is amended by revising the entry for cobalt to read as follows:

\* \* \* \* \*

(j) Cobalt hydroxide filtrate.

**PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	156.346	68.543

164. 40 CFR Part 421.315(k) is amended by revising the entry for cobalt to read as follows:

\* \* \* \* \*

(k) Cobalt hydroxide filter cake wash.

**PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	300.094	131.932

**§ 421.316 [Amended]**

165. 40 CFR Part 421.316(a) is amended by revising the entry for cobalt to read as follows:

(a) Tungsten detergent wash and rinse.

**PSNS for the Secondary Tungsten and Cobalt Subcategory**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	0.538	0.236

166. 40 CFR Part 421.316(b) is amended by revising the entry for cobalt to read as follows:

\* \* \* \* \*

(b) Tungsten leaching acid.

**PSNS for the Secondary Tungsten and Cobalt Subcategory**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	7.096	3.111

167. 40 CFR Part 421.316(c) is amended by revising the entry for cobalt to read as follows:

\* \* \* \* \*

(c) Tungsten post leaching wash and rinse.

PSNS for the Secondary Tungsten and Cobalt Subcategory

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	14.194	6.223

168. 40 CFR Part 421.316(d) is amended by revising the entry for cobalt to read as follows:  
\* \* \* \* \*

(d) Synthetic scheelite filtrate.

PSNS for the Secondary Tungsten and Cobalt Subcategory

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	45.984	20.160

169. 40 CFR Part 421.316(e) is amended by revising the entry for cobalt to read as follows:  
\* \* \* \* \*

(e) Tungsten carbide leaching wet air pollution control.

PSNS for the Secondary Tungsten and Cobalt Subcategory

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	4.833	2.119

170. 40 CFR Part 421.316(f) is amended by revising the entry for cobalt to read as follows:  
\* \* \* \* \*

(f) Tungsten carbide wash water.

PSNS for the Secondary Tungsten and Cobalt Subcategory

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	22.999	10.083

171. 40 CFR Part 421.316(g) is amended by revising the entry for cobalt to read as follows:  
\* \* \* \* \*

(g) Cobalt sludge leaching wet air pollution control.

PSNS for the Secondary Tungsten and Cobalt Subcategory

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	98.756	43.295

172. 40 CFR Part 421.316(h) is amended by revising the entry for cobalt to read as follows:  
\* \* \* \* \*

(h) Crystallization decant.

PSNS for the Secondary Tungsten and Cobalt Subcategory

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	114.954	50.397

173. 40 CFR Part 421.316(i) is amended by revising the entry for cobalt to read as follows:  
\* \* \* \* \*

(i) Acid wash decant.

PSNS for the Secondary Tungsten and Cobalt Subcategory

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	52.611	23.065

174. 40 CFR Part 421.316(j) is amended by revising the entry for cobalt to read as follows:  
\* \* \* \* \*

(j) Cobalt hydroxide filtrate.

PSNS for the Secondary Tungsten and Cobalt Subcategory

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	156.346	68.543

175. 40 CFR Part 421.316(k) is amended by revising the entry for cobalt to read as follows:  
\* \* \* \* \*

(k) Cobalt hydroxide filter cake wash.

PSNS for the Secondary Tungsten and Cobalt Subcategory

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt.....	300.094	131.932

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