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SUBPART M—NEW SOURCE PERFORMANCE STANDARDS (NSPS)

Pollutant	Maximum daily ¹	Maximum monthly avg. ¹
TSS	0.00998	0.00465
pH	(²)	(²)

¹ Pounds per thousand pound of product.
² Within the range of 6.0 to 9.0.

(b) *Forging operations.*

SUBPART M—NEW SOURCE PERFORMANCE STANDARDS (NSPS)

Pollutant	Maximum daily ¹	Maximum monthly avg. ¹
O&G (as HEM)	0.00746	0.00446
TSS	0.0123	0.00508
pH	(²)	(²)

¹ Pounds per thousand pound of product.
² Within the range of 6.0 to 9.0.

(c) *Briquetting.* There shall be no discharge of process wastewater pollutants to waters of the U.S.

§ 420.135 Pretreatment standards for existing sources (PSES).

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart that introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and must achieve the following pretreatment standards for existing sources (PSES):

- (a) *Direct-reduced iron.* [Reserved]
- (b) *Forging operations.* [Reserved]

(c) *Briquetting.* There shall be no discharge of process wastewater pollutants to POTWs.

§ 420.136 Pretreatment standards for new sources (PSNS).

Except as provided in 40 CFR 403.7, any new source subject to this subpart that introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and must achieve the following pretreatment standards for new sources (PSNS):

- (a) *Direct-reduced iron.* [Reserved]
- (b) *Forging operations.* [Reserved]

(c) *Briquetting.* There shall be no discharge of process wastewater pollutants to POTWs.

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§ 420.137 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best control technology for conventional pollutants (BCT).

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best control technology for conventional pollutants (BCT): The limitations shall be the same as those specified for conventional pollutants (which are defined in 40 CFR 401.16) in § 420.132 for the best practicable control technology currently available (BPT).

PART 421—NONFERROUS METALS MANUFACTURING POINT SOURCE CATEGORY

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- 421.13 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
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- 421.23 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
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- 421.30 Applicability: Description of the secondary aluminum smelting subcategory.
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- 421.32 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.33 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
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- 421.37 [Reserved]

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- 421.40 Applicability: Description of the primary copper smelting subcategory.
- 421.41 Specialized definitions.
- 421.42 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.43 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.44 Standards of performance for new sources.
- 421.45 [Reserved]
- 421.46 Pretreatment standards for new sources.
- 421.47 [Reserved]

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- 421.50 Applicability: Description of the primary electrolytic copper refining subcategory.
- 421.51 Specialized definitions.
- 421.52 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.53 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.54 Standards of performance for new sources.
- 421.55 [Reserved]
- 421.56 Pretreatment standards for new sources.
- 421.57 [Reserved]

Subpart F—Secondary Copper Subcategory

- 421.60 Applicability: Description of the secondary copper subcategory.
- 421.61 Specialized definitions.
- 421.62 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.63 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.64 Standards of performance for new sources.
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- 421.66 Pretreatment standards for new sources.
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Subpart G—Primary Lead Subcategory

- 421.70 Applicability: Description of the primary lead subcategory.
- 421.71 Specialized definitions.
- 421.72 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.73 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.74 Standards of performance for new sources.
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- 421.76 Pretreatment standards for new sources.
- 421.77 [Reserved]

Subpart H—Primary Zinc Subcategory

- 421.80 Applicability: Description of the primary zinc subcategory.
- 421.81 Specialized definitions.
- 421.82 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.83 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.84 Standards of performance for new sources.
- 421.85 Pretreatment standards for existing sources.
- 421.86 Pretreatment standards for new sources.
- 421.87 [Reserved]

Subpart I—Metallurgical Acid Plants Subcategory

- 421.90 Applicability: Description of the metallurgical acid plants subcategory.
- 421.91 Specialized definitions.
- 421.92 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.93 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.94 Standards of performance for new sources.
- 421.95 Pretreatment standards for existing sources.
- 421.96 Pretreatment standards for new sources.
- 421.97 [Reserved]

Subpart J—Primary Tungsten Subcategory

- 421.100 Applicability: Description of the primary tungsten subcategory.
- 421.101 Specialized definitions.
- 421.102 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.103 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.104 Standards of performance for new sources.

- 421.105 Pretreatment standards for existing sources.
- 421.106 Pretreatment standards for new sources.
- 421.107 [Reserved]

Subpart K—Primary Columbium-Tantalum Subcategory

- 421.110 Applicability: Description of the primary columbium-tantalum subcategory.
- 421.111 Specialized definitions.
- 421.112 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.113 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.114 Standards of performance for new sources.
- 421.115 Pretreatment standards for existing sources.
- 421.116 Pretreatment standards for new sources.
- 421.117 [Reserved]

Subpart L—Secondary Silver Subcategory

- 421.120 Applicability: Description of the secondary silver subcategory.
- 421.121 Specialized definitions.
- 421.122 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.123 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.124 Standards of performance for new sources.
- 421.125 Pretreatment standards for existing sources.
- 421.126 Pretreatment standards for new sources.
- 421.127 [Reserved]

Subpart M—Secondary Lead Subcategory

- 421.130 Applicability: Description of the secondary lead subcategory.
- 421.131 Specialized definitions.
- 421.132 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.133 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

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421.134 Standards of performance for new sources.

421.135 Pretreatment standards for existing sources.

421.136 Pretreatment standards for new sources.

421.137 [Reserved]

Subpart N—Primary Antimony Subcategory

421.140 Applicability: Description of the primary antimony subcategory.

421.141 Specialized definitions.

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

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

421.144 Standards of performance for new sources.

421.145 [Reserved]

421.146 Pretreatment standards for new sources.

421.147 [Reserved]

Subpart O—Primary Beryllium Subcategory

421.150 Applicability: Description of the primary beryllium subcategory.

421.151 Specialized definitions.

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

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

421.154 Standards of performance for new sources.

421.155 [Reserved]

421.156 Pretreatment standards for new sources.

421.157 [Reserved]

Subpart P—Primary and Secondary Germanium and Gallium Subcategory

421.180 Applicability: Description of the primary and secondary germanium and gallium subcategory.

421.181 Specialized definitions.

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

421.183 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best

available technology economically achievable.

421.184 Standards of performance for new sources.

421.185 Pretreatment standards for existing sources.

421.186 Pretreatment standards for new sources.

421.187 [Reserved]

Subpart Q—Secondary Indium Subcategory

421.190 Applicability: Description of the secondary indium subcategory.

421.191 Specialized definitions.

421.192–421.193 [Reserved]

421.194 Standards of performance for new sources.

421.195 Pretreatment standards for existing sources.

421.196 Pretreatment standards for new sources.

421.197 [Reserved]

Subpart R—Secondary Mercury Subcategory

421.200 Applicability: Description of the secondary mercury subcategory.

421.201 Specialized definitions.

421.202–421.203 [Reserved]

421.204 Standards of performance for new sources.

421.205 [Reserved]

421.206 Pretreatment standards for new sources.

421.207 [Reserved]

Subpart S—Primary Molybdenum and Rhenium Subcategory

421.210 Applicability: Description of the primary molybdenum and rhenium subcategory.

421.211 Specialized definitions.

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

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

421.214 Standards of performance for new sources.

421.215 [Reserved]

421.216 Pretreatment standards for new sources.

421.217 [Reserved]

Subpart T—Secondary Molybdenum and Vanadium Subcategory

- 421.220 Applicability: Description of the secondary molybdenum and vanadium subcategory.
- 421.221 Specialized definitions.
- 421.222 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.223 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.224 Standards of performance for new sources.
- 421.225 [Reserved]
- 421.226 Pretreatment standards for new sources.
- 421.227 [Reserved]

Subpart U—Primary Nickel and Cobalt Subcategory

- 421.230 Applicability: Description of the primary nickel and cobalt subcategory.
- 421.231 Specialized definitions.
- 421.232 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.233 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.234 Standards of performance for new sources.
- 421.235 [Reserved]
- 421.236 Pretreatment standards for new sources.
- 421.237 [Reserved]

Subpart V—Secondary Nickel Subcategory

- 421.240 Applicability: Description of the secondary nickel subcategory.
- 421.241 Specialized definitions.
- 421.242–421.243 [Reserved]
- 421.244 Standards of performance for new sources.
- 421.245 Pretreatment standards for existing sources.
- 421.246 Pretreatment standards for new sources.
- 421.247 [Reserved]

Subpart W—Primary Precious Metals and Mercury Subcategory

- 421.250 Applicability: Description of the primary precious metals and mercury subcategory.

- 421.251 Specialized definitions.
- 421.252 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.253 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.254 Standards of performance for new sources.
- 421.255 [Reserved]
- 421.256 Pretreatment standards for new sources.
- 421.257 [Reserved]

Subpart X—Secondary Precious Metals Subcategory

- 421.260 Applicability: Description of the secondary precious metals subcategory.
- 421.261 Specialized definitions.
- 421.262 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.263 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.264 Standards of performance for new sources.
- 421.265 Pretreatment standards for existing sources.
- 421.266 Pretreatment standards for new sources.
- 421.267 [Reserved]

Subpart Y—Primary Rare Earth Metals Subcategory

- 421.270 Applicability: Description of the primary rare earth metals subcategory.
- 421.271 Specialized definitions.
- 421.272–421.273 [Reserved]
- 421.274 Standards of performance for new sources.
- 421.275 Pretreatment standards for existing sources.
- 421.276 Pretreatment standards for new sources.
- 421.277 [Reserved]

Subpart Z—Secondary Tantalum Subcategory

- 421.280 Applicability: Description of the secondary tantalum subcategory.
- 421.281 Specialized definitions.
- 421.282 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best

- practicable control technology currently available.
- 421.283 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.284 Standards of performance for new sources.
- 421.285 [Reserved]
- 421.286 Pretreatment standards for new sources.
- 421.287 [Reserved]

Subpart AA—Secondary Tin Subcategory

- 421.290 Applicability: Description of the secondary tin subcategory
- 421.291 Specialized definitions.
- 421.292 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.293 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.294 Standards of performance for new sources.
- 421.295 Pretreatment standards for existing sources.
- 421.296 Pretreatment standards for new sources.
- 421.297 [Reserved]

Subpart AB—Primary and Secondary Titanium Subcategory

- 421.300 Applicability: Description of the primary and secondary titanium subcategory.
- 421.301 Specialized definitions.
- 421.302 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.303 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.304 Standards of performance for new sources.
- 421.305 Pretreatment standards for existing sources.
- 421.306 Pretreatment standards for new sources.
- 421.307 [Reserved]

Subpart AC—Secondary Tungsten and Cobalt Subcategory

- 421.310 Applicability: Description of the secondary tungsten and cobalt subcategory.

- 421.311 Specialized definitions.
- 421.312 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.313 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.314 Standards of performance for new sources.
- 421.315 Pretreatment standards for existing sources.
- 421.316 Pretreatment standards for new sources.
- 421.317 [Reserved]

Subpart AD—Secondary Uranium Subcategory

- 421.320 Applicability: Description of the secondary uranium subcategory.
- 421.321 Specialized definitions.
- 421.322 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.323 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.324 Standards of performance for new sources.
- 421.325 [Reserved]
- 421.326 Pretreatment standards for new sources.
- 421.327 [Reserved]

Subpart AE—Primary Zirconium and Hafnium Subcategory

- 421.330 Applicability: Description of the primary zirconium and hafnium subcategory.
- 421.331 Specialized definitions.
- 421.332 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.333 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.334 Standards of performance for new sources.
- 421.335 [Reserved]
- 421.336 Pretreatment standards for new sources.
- 421.337 [Reserved]

AUTHORITY: Secs. 301, 304 (b), (c), (e), and (g), 306 (b) and (c), 307 (b) and (c), 308 and 501

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of the Clean Water Act (the Federal Water Pollution Control Act Amendments of 1972, as amended by the Clean Water Act of 1977) and the Water Quality Act of 1987 (the "Act"); 33 U.S.C. 1311, 1314 (b), (c), (e), and (g), 1316 (b) and (c), 1317 (b) and (c), 1318 and 1361; 86 Stat. 816, Pub. L. 92-500; 91 Stat. 1567, Pub. L. 95-217; 101 Stat. 7, Pub. L. 100-4.

SOURCE: 49 FR 8790, Mar. 8, 1984, unless otherwise noted.

GENERAL PROVISIONS

§ 421.1 Applicability.

This part applies to facilities producing primary metals from ore concentrates and recovering secondary metals from recycle wastes which discharge or may discharge pollutants to waters of the United States or which introduce or may introduce pollutants into a publicly owned treatment works. The applicability of this part to alloying or casting of nonferrous metals is limited to alloying or casting of hot metal directly from the nonferrous metals manufacturing process without cooling. Remelting followed by alloying or cooling is included in the aluminum forming, nonferrous metals forming, or metal molding and casting point source categories.

§ 421.2 [Reserved]

§ 421.3 Monitoring and reporting requirements.

The following special monitoring requirements apply to all facilities controlled by this regulation:

(a) The *monthly average* regulatory values shall be the basis for the monthly average discharge in direct discharge permits and for pretreatment standards. Compliance with the monthly discharge limit is required regardless of the number of samples analyzed and averaged.

(b) Periodic analysis for cyanide are not required for a facility in the primary beryllium subcategory (subpart O of this part) 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 au-

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thority or permit issuing authority that cyanide is neither generated nor used in the beryllium manufacturing process employed at that facility.

[49 FR 8790, Mar. 8, 1984, as amended at 55 FR 31697, Aug. 3, 1990]

§ 421.4 Compliance date for pretreatment standards for existing sources (PSES).

The PSES compliance deadline in subparts A through M is March 8, 1987. The PSES compliance deadline for plants in subparts N through AE is September 20, 1988.

[50 FR 52776, Dec. 26, 1985]

§ 421.5 Removal allowances for pretreatment standards.

Removal allowances pursuant to 40 CFR 403.7(a) may be granted for the toxic metals limited in 40 CFR part 421 when used as indicator pollutants.

Subpart A—Bauxite Refining Subcategory

§ 421.10 Applicability; description of the bauxite refining subcategory.

The provisions of this subpart are applicable to discharges resulting from the refining of bauxite to alumina by the Bayer process or by the combination process.

[39 FR 12825, Apr. 8, 1974]

§ 421.11 Specialized definitions.

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in part 401 of this chapter shall apply to this subpart.

(b) The term *bauxite* shall mean ore containing alumina monohydrate or alumina trihydrate which serves as the principal raw material for the production of alumina by the Bayer process or by the combination process.

(c) The term *product* shall mean alumina.

(d) For all impoundments the term *within the impoundment* for purposes of calculating the volume of process wastewater which may be discharged, shall mean the surface area within the