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ENVIRONMENTAL PROTECTION AGENCY

OFFICE OF ENFORCEMENT

# *Summary of FINAL Effluent Limitations Guidelines for Existing Sources and Standards of Performance for New Sources*

NATIONAL FIELD INVESTIGATIONS CENTER - DENVER

DENVER, COLORADO

AUGUST 1974

# Summary

# of

# FINAL

## Effluent Limitations Guidelines for Existing Sources

## and

## Standards of Performance for New Sources

## for 28 Point Source Categories

Environmental Protection Agency

Office of Enforcement

National Field Investigations Center - Denver

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## DEFINITIONS

*BPT - Effluent limitations guidelines to be achieved no later than July 1, 1977 representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

BAT - Effluent limitations guidelines to be achieved no later than July 1, 1983 representing the degree of effluent reduction attainable by application of the best available technology economically available.

New Sources -Effluent reduction to be achieved by New Sources through application of the best available demonstrated control technology, processes, operating methods, or other alternatives.

*In establishing the limitations set forth for BPT, EPA took into account all information it was able to collect, develop and solicit with respect to factors (such as age and size of plant, raw materials, manufacturing processes, products produced, treatment technology available, energy requirements and costs) which can affect the industry subcategorization and effluent levels established. It is, however, possible that data which would affect these limitations have not been available and, as a result, these limitations should be adjusted for certain plants in this industry. An individual discharger or other interested person may submit evidence to the Regional Administrator (or to the State, if the State has the authority to issue NPDES permits) that factors relating to the equipment or facilities involved, the process applied, or other such factors related to such discharger are fundamentally different from the factors considered in the establishment of the guidelines. On the basis of such evidence or other available information, the Regional Administrator (or the State) will make a written finding that such factors are or are not fundamentally different for that facility compared to those specified in the Development Document. If such fundamentally different factors are found to exist, the Regional Administrator or the State shall establish for the discharger effluent limitations in the NPDES permit either more or less stringent than the limitations established herein, to the extent dictated by such fundamentally different factors. Such limitations must be approved by the Administrator of the Environmental Protection Agency. The Administrator may approve or disapprove such limitations, specify other limitations, or initiate proceedings to revise these regulations.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 405 - DAIRY PRODUCTS | FINAL REGULATIONS, PUBLISHED 5/28/74, EFFECTIVE 5/28/74 | | | | | |
| Subpart A - Receiving Stations Subcategory | | | | | | |
| (a) For receiving stations receiving more than 150,000 lb/day of milk equivalent (15,600 lb/day or more of BOD5 input). | | | | | | |
| BOD5 | 0.048 lb/100 lb of BOD5 input | 0.019 lb/100 lb of BOD5 input | 0.010 lb/100 lb of BOD5 input | 0.005 lb/100 lb of BOD5 input | 0.010 lb/100 lb of BOD5 input | 0.005 lb/100 lb of BOD5 input |
| TSS | 0.071 lb/100 lb of BOD5 input | 0.029 lb/100 lb of BOD5 input | 0.013 lb/100 lb of BOD5 input | 0.006 lb/100 lb of BOD5 input | 0.013 lb/100 lb of BOD5 input | 0.006 lb/100 lb of BOD5 input |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (b) For receiving stations receiving 150,000 lb/day or less of milk equivalent (under 15,600 lb/day of BOD5 input). | | | | | | |
| BOD5 | 0.063 lb/100 lb of BOD5 input | 0.031 lb/100 lb of BOD5 input | 0.015 lb/100 lb of BOD5 input | 0.008 lb/100 lb of BOD5 input | 0.010 lb/100 lb of BOD5 input | 0.005 lb/100 lb of BOD5 input |
| TSS | 0.094 lb/100 lb of BOD5 input | 0.047 lb/100 lb of BOD5 input | 0.019 lb/100 lb of BOD5 input | 0.009 lb/100 lb of BOD5 input | 0.013 lb/100 lb of BOD5 input | 0.006 lb/100 lb of BOD5 input |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart B - Fluid Products Subcategory | | | | | | |
| (a) For fluid products plants receiving more than 250,000 lb/day of milk equivalent (more than 25,900 lb/day of BOD5 input). | | | | | | |
| BOD5 | 0.338 lb/100 lb of BOD5 input | 0.135 lb/100 lb of BOD5 input | 0.074 lb/100 lb of BOD5 input | 0.037 lb/100 lb of BOD5 input | 0.074 lb/100 lb of BOD5 input | 0.037 lb/100 lb of BOD5 input |
| TSS | 0.551 lb/100 lb of BOD5 input | 0.203 lb/1000 lb of BOD5 input | 0.093 lb/100 lb of BOD5 input | 0.046 lb/100 lb of BOD5 input | 0.093 lb/100 lb of BOD5 input | 0.046 lb/100 lb of BOD5 input |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 405 - DAIRY PRODUCTS (Continued) | FINAL REGULATIONS, PUBLISHED 5/28/74, EFFECTIVE 5/28/74 | | | | | |
| Subpart B - Fluid Products Subcategory (Continued) | | | | | | |
| (b) For fluid products plants receiving 250,000 lb/day or less of milk equivalent (less than 25,900 lb/day of BOD5 input). | | | | | | |
| BOD5 | 0.450 lb/100 lb of BOD5 input | 0.225 lb/100 lb of BOD5 input | 0.110 lb/100 lb of BOD5 input | 0.055 lb/100 lb of BOD5 input | 0.074 lb/100 lb of BOD5 input | 0.037 lb/100 lb of BOD5 input |
| TSS | 0.675 lb/100 lb of BOD5 input | 0.338 lb/100 lb of BOD5 input | 0.138 lb/100 lb of BOD5 input | 0.069 lb/100 lb of BOD5 input | 0.093 lb/100 lb of BOD5 input | 0.046 lb/100 lb of BOD5 input |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart C - Cultured Products Subcategory | | | | | | |
| (a) For cultured products plants receiving more than 60,000 lb/day of milk equivalent (more than 6,200 lb/day of BOD5 input). | | | | | | |
| BOD5 | 0.338 lb/100 lb of BOD5 input | 0.135 lb/100 lb of BOD5 input | 0.074 lb/100 lb of BOD5 input | 0.037 lb/100 lb of BOD5 input | 0.074 lb/100 lb of BOD5 input | 0.037 lb/100 lb of BOD5 input |
| TSS | 0.506 lb/100 lb of BOD5 input | 0.203 lb/100 lb of BOD5 input | 0.093 lb/100 lb of BOD5 input | 0.046 lb/100 lb of BOD5 input | 0.093 lb/100 lb of BOD5 input | 0.046 lb/100 lb of BOD5 input |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (b) For cultured products plants receiving 60,000 lb/day or less of milk equivalent (less than 6,200 lb/day of BOD5 input). | | | | | | |
| BOD5 | 0.450 lb/100 lb of BOD5 input | 0.225 lb/100 lb of BOD5 input | 0.110 lb/100 lb of BOD5 input | 0.055 lb/100 lb of BOD5 input | 0.074 lb/100 lb of BOD5 input | 0.037 lb/100 lb of BOD5 input |
| TSS | 0.675 lb/100 lb of BOD5 input | 0.338 lb/100 lb of BOD5 input | 0.138 lb/100 lb of BOD5 input | 0.069 lb/100 lb of BOD5 input | 0.093 lb/100 lb of BOD5 input | 0.046 lb/100 lb of BOD5 input |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 405 - DAIRY PRODUCTS (Continued) | FINAL REGULATIONS, PUBLISHED 5/28/74, EFFECTIVE 5/28/74 | | | | | |
| Subpart D - Butter Subcategory | | | | | | |
| (a) For plants processing more than 175,000 lb/day of milk equivalent (more than 18,180 lb/day of BOD5 input). | | | | | | |
| BOD5 | 0.138 lb/100 lb of BOD5 input | 0.055 lb/100 lb of BOD5 input | 0.016 lb/100 lb of BOD5 input | 0.008 lb/100 lb of BOD5 input | 0.016 lb/100 lb of BOD5 input | 0.008 lb/100 lb of BOD5 input |
| TSS | 0.206 lb/100 lb of BOD5 input | 0.083 lb/100 lb of BOD5 input | .020 lb/100 lb of BOD5 input | .010 lb/100 lb of BOD5 input | 0.020 lb/100 lb of BOD5 input | 0.010 lb/100 lb of BOD5 input |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (b) For plants processing 175,000 lb/day or less of milk equivalent (less than 18,180 lb/day of BOD5 input). | | | | | | |
| BOD5 | 0.183 lb/100 lb of BOD5 input | 0.091 lb/100 lb of BOD5 input | 0.025 lb/100 lb of BOD5 input | 0.013 lb/100 lb of BOD5 input | 0.016 lb/100 lb of BOD5 input | 0.008 lb/100 lb of BOD5 input |
| TSS | 0.274 lb/100 lb of BOD5 input | 0.137 lb/100 lb of BOD5 input | 0.031 lb/100 lb of BOD5 input | 0.016 lb/100 lb of BOD5 input | 0.020 lb/100 lb of BOD5 input | 0.010 lb/100 lb of BOD5 input |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart E - Cottage Cheese and Cultured Cream Cheese Subcategory | | | | | | |
| (a) For plants processing more than 25,000 lb/day of milk equivalent (more than 2,600 lb/day of BOD5 input). | | | | | | |
| BOD5 | 0.670 lb/100 lb of BOD5 input | 0.268 lb/100 lb of BOD5 input | 0.148 lb/100 lb of BOD5 input | 0.074 lb/100 lb of BOD5 input | 0.148 lb/100 lb of BOD5 input | 0.074 lb/100 lb of BOD5 input |
| TSS | 1.005 lb/100 lb of BOD5 input | 0.402 lb/100 lb of BOD5 input | 0.185 lb/100 lb of BOD5 input | 0.093 lb/100 lb of BOD5 input | 0.185 lb/100 lb of BOD5 input | 0.093 lb/100 lb of BOD5 input |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 405 - DAIRY PRODUCTS (Continued) | FINAL REGULATIONS, PUBLISHED 5/28/74, EFFECTIVE 5/28/74 | | | | | |
| Subpart E - Cottage Cheese and Cultured Cream Cheese Subcategory (Continued) | | | | | | |
| (b) For plants processing 25,000 lb/day or less of milk equivalent (less than 2,600 lb/day of BOD5 input). | | | | | | |
| BOD5 | 0.893 lb/100 lb of BOD5 input | 0.446 lb/100 lb of BOD5 input | 0.223 lb/100 lb of BOD5 input | 0.111 lb/100 lb of BOD5 input | 0.148 lb/100 lb of BOD5 input | 0.074 lb/100 lb of BOD5 input |
| TSS | 1.339 lb/100 lb of BOD5 input | 0.669 lb/100 lb of BOD5 input | 0.278 lb/100 lb of BOD5 input | 0.139 lb/100 lb of BOD5 input | 0.185 lb/100 lb of BOD5 input | 0.093 lb/100 lb of BOD5 input |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart F - Natural and Processed Cheese Subcategory | | | | | | |
| (a) For plants processing more than 100,000 lb/day of milk equivalent (more than 10,390 lb/day of BOD5 input). | | | | | | |
| BOD5 | 0.073 lb/100 lb of BOD5 input | 0.029 lb/100 lb of BOD5 input | 0.016 lb/100 lb of BOD5 input | 0.008 lb/100 lb of BOD5 input | 0.016 lb/100 lb of BOD5 input | 0.008 lb/100 lb of BOD5 input |
| TSS | 0.109 lb/100 lb of BOD5 input | 0.044 lb/100 lb of BOD5 input | 0.020 lb/100 lb of BOD5 input | 0.010 lb/100 lb of BOD5 input | 0.020 lb/100 lb of BOD5 input | 0.010 lb/100 lb of BOD5 input |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (b) For plants processing 100,000 lb/day or less of milk equivalent (less than 10,390 lb/day of BOD5 input). | | | | | | |
| BOD5 | 0.098 lb/100 lb of BOD5 input | 0.049 lb/100 lb of BOD5 input | 0.025 lb/100 lb of BOD5 input | 0.013 lb/100 lb of BOD5 input | 0.016 lb/100 lb of BOD5 input | 0.008 lb/100 lb of BOD5 input |
| TSS | 0.146 lb/100 lb of BOD5 input | 0.073 lb/100 lb of BOD5 input | 0.031 lb/100 lb of BOD5 input | 0.016 lb/100 lb of BOD5 input | 0.020 lb/100 lb of BOD5 input | 0.010 lb/100 lb of BOD5 input |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 405 - DAIRY PRODUCTS (Continued) | FINAL REGULATIONS, PUBLISHED 5/28/74, EFFECTIVE 5/28/74 | | | | | |
| Subpart G - Fluid Mix for Ice Cream and Other Frozen Desserts Subcategory | | | | | | |
| (a) For plants with a dairy products input of more than 85,000 lb/day of milk equivalent (more than 8,830 lb/day of BOD5 input). | | | | | | |
| BOD5 | 0.220 lb/100 lb of BOD5 input | 0.088 lb/100 lb of BOD5 input | 0.048 lb/100 lb of BOD5 input | 0.024 lb/100 lb of BOD5 input | 0.048 lb/100 lb of BOD5 input | 0.024 lb/100 lb of BOD5 input |
| TSS | 0.264 lb/100 lb of BOD5 input | 0.132 lb/100 lb of BOD5 input | 0.060 lb/100 lb of BOD5 input | 0.030 lb/100 lb of BOD5 input | 0.060 lb/100 lb of BOD5 input | 0.030 lb/100 lb of BOD5 input |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (b) For plants with a dairy products input of 85,000 lb/day or less of milk equivalent (less than 8,830 lb/day of BOD5 input). | | | | | | |
| BOD5 | 0.293 lb/100 lb of BOD5 input | 0.146 lb/100 lb of BOD5 input | 0.073 lb/100 lb of BOD5 input | 0.036 lb/100 lb of BOD5 input | 0.048 lb/100 lb of BOD5 input | 0.024 lb/100 lb of BOD5 input |
| TSS | 0.439 lb/100 lb of BOD5 input | 0.219 lb/100 lb of BOD5 input | 0.091 lb/100 lb of BOD5 input | 0.45 lb/100 lb of BOD5 input | 0.060 lb/100 lb of BOD5 input | 0.030 lb/100 lb of BOD5 input |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart H - Ice Cream, Frozen Desserts, Novelties and Other Dairy Desserts Subcategory | | | | | | |
| (a) For plants with a dairy products input of more than 85,000 lb/day of milk equivalent (more than 8,830 lb/day of BOD5 input). | | | | | | |
| BOD5 | 0.460 lb/100 lb of BOD5 input | 0.184 lb/100 lb of BOD5 input | 0.094 lb/100 lb of BOD5 input | 0.047 lb/100 lb of BOD5 input | 0.094 lb/100 lb of BOD5 input | 0.047 lb/100 lb of BOD5 input |
| TSS | .690 lb/100 lb of BOD5 input | .276 lb/100 lb of BOD5 input | .118 lb/100 lb of BOD5 input | .059 lb/100 lb of BOD5 input | .118 lb/100 lb of BOD5 input | .059 lb/100 lb of BOD5 input |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 405 - DAIRY PRODUCTS (Continued) | FINAL REGULATIONS, PUBLISHED 5/28/74, EFFECTIVE 5/28/74 | | | | | |
| Subpart H - Ice Cream, Frozen Desserts, Novelties and Other Dairy Desserts Subcategory (Continued) | | | | | | |
| (b) For plants with a dairy products input of 85,000 lb/day or less of milk equivalent (less than 8,830 lb/day of BOD5 input). | | | | | | |
| BOD5 | 0.613 lb/100 lb of BOD5 input | 0.306 lb/100 lb of BOD5 input | 0.140 lb/100 lb of BOD5 input | 0.070 lb/100 lb of BOD5 input | 0.094 lb/100 lb of BOD5 input | 0.047 lb/100 lb of BOD5 input |
| TSS | .919 lb/100 lb of BOD5 input | .459 lb/100 lb of BOD5 input | .175 lb/100 lb of BOD5 input | .088 lb/100 lb of BOD5 input | .118 lb/100 lb of BOD5 input | .059 lb/100 lb of BOD5 input |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart I - Condensed Milk Subcategory | | | | | | |
| (a) For plants condensing more than 100,000 lb/day of milk equivalent (more than 10,390 lb/day of BOD5 input). | | | | | | |
| BOD5 | 0.345 lb/100 lb of BOD5 input | 0.138 lb/100 lb of BOD5 input | 0.076 lb/100 lb of BOD5 input | 0.038 lb/100 lb of BOD5 input | 0.076 lb/100 lb of BOD5 input | 0.038 lb/100 lb of BOD5 input |
| TSS | .518 lb/100 lb of BOD5 input | .207 lb/100 lb of BOD5 input | .095 lb/100 lb of BOD5 input | .048 lb/100 lb of BOD5 input | .095 lb/100 lb of BOD5 input | .048 lb/100 lb of BOD5 input |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (b) For plants condensing 100,000 lb/day or less of milk equivalent (less than 10,390 lb/day of BOD5 input). | | | | | | |
| BOD5 | 0.460 lb/100 lb of BOD5 input | 0.184 lb/100 lb of BOD5 input | 0.115 lb/100 lb of BOD5 input | 0.058 lb/100 lb of BOD5 input | 0.076 lb/100 lb of BOD5 input | 0.038 lb/100 lb of BOD5 input |
| TSS | .690 lb/100 lb of BOD5 input | .276 lb/100 lb of BOD5 input | .144 lb/100 lb of BOD5 input | .072 lb/100 lb of BOD5 input | .095 lb/100 lb of BOD5 input | .048 lb/100 lb of BOD5 input |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|

PART 405 - DAIRY PRODUCTS (Continued) FINAL REGULATIONS, PUBLISHED 5/28/74, EFFECTIVE 5/28/74

Subpart I - Condensed Milk Subcategory (Continued)

(c) For plants in the size range covered by (b) once-through barometric condenser water may be discharged untreated if the composite net entrainment is below 15 mg/l of BOD5 for any one day and below 10 mg/l of BOD5 as the average for thirty consecutive days.

Subpart J - Dry Milk Subcategory

(a) For milk drying plants with an input equivalent to more than 145,000 lb/day of milk equivalent (more than 15,070 lb/day of BOD5 input).

| | | | | | | |
|---|---|---|---|---|---|---|
| BOD5 | 0.163 lb/100 lb of BOD5 input | 0.065 lb/100 lb of BOD5 input | 0.036 lb/100 lb of BOD5 input | 0.018 lb/100 lb of BOD5 input | 0.036 lb/100 lb of BOD5 input | 0.018 lb/100 lb of BOD5 input |
| TSS | .244 lb/100 lb of BOD5 input | .098 lb/100 lb of BOD5 input | .045 lb/100 lb of BOD5 input | .023 lb/100 lb of BOD5 input | .045 lb/100 lb of BOD5 input | .023 lb/100 lb of BOD5 input |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

(b) For milk drying plants with an input equivalent to 145,000 lb/day or less of milk equivalent (less than 15,070 lb/day of BOD5 input).

| | | | | | | |
|---|---|---|---|---|---|---|
| BOD5 | 0.218 lb/100 lb of BOD5 input | 0.109 lb/100 lb of BOD5 input | 0.055 lb/100 lb of BOD5 input | 0.028 lb/100 lb of BOD5 input | 0.036 lb/100 lb of BOD5 input | 0.018 lb/100 lb of BOD5 input |
| TSS | .328 lb/100 lb of BOD5 input | .164 lb/100 lb of BOD5 input | .069 lb/100 lb of BOD5 input | .034 lb/100 lb of BOD5 input | .045 lb/100 lb of BOD5 input | .023 lb/100 lb of BOD5 input |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 405 - DAIRY PRODUCTS (Continued) | FINAL REGULATIONS, PUBLISHED 5/28/74, EFFECTIVE 5/28/74 | | | | | |
| Subpart K - Condensed Whey Subcategory | | | | | | |
| (a) For whey condensing plants with over 300,000 lb/day of fluid raw whey input (over 20,700 lb/day of solids or 14,160 lb/day of BOD5 input). | | | | | | |
| BOD5 | 0.100 lb/100 lb of BOD5 input | 0.040 lb/100 lb of BOD5 input | 0.022 lb/100 lb of BOD5 input | 0.011 lb/100 lb of BOD5 input | 0.022 lb/100 lb of BOD5 input | 0.011 lb/100 lb of BOD5 input |
| TSS | .150 lb/100 lb of BOD5 input | .060 lb/100 lb of BOD5 input | .028 lb/100 lb of BOD5 input | .014 lb/100 lb of BOD5 input | .028 lb/100 lb of BOD5 input | .014 lb/100 lb of BOD5 input |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (b) For whey condensing plants with 300,000 lb/day or less of raw fluid whey input (less than 20,700 lb/day of solids or 14,160 lb/day of BOD5 input). | | | | | | |
| BOD5 | 0.130 lb/100 lb of BOD5 input | 0.065 lb/100 lb of BOD5 input | 0.033 lb/100 lb of BOD5 input | 0.016 lb/100 lb of BOD5 input | 0.022 lb/100 lb of BOD5 input | 0.011 lb/100 lb of BOD5 input |
| TSS | .195 lb/100 lb of BOD5 input | .098 lb/100 lb of BOD5 input | .041 lb/100 lb of BOD5 input | .020 lb/100 lb of BOD5 input | .028 lb/100 lb of BOD5 input | .014 lb/100 lb of BOD5 input |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

(c) For plants in the size range covered in (b) once-through barometric condenser water may be discharged untreated if the composite net entrainment is below 15 mg/l of BOD5 for any one day and below 10 mg/l of BOD5 as the average for thirty consecutive days.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 405 - DAIRY PRODUCTS (Continued) | FINAL REGULATIONS, PUBLISHED 5/28/74, EFFECTIVE 5/28/74 | | | | | |
| Subpart L - Dry Whey Subcategory | | | | | | |
| (a) For whey drying plants with an input equivalent to more than 57,000 lb/day of 40 percent solids whey (22,800 lb/day of solids or 15,620 lb/day of BOD5 input). | | | | | | |
| BOD5 | 0.100 lb/100 lb of BOD5 input | 0.040 lb/100 lb of BOD5 input | 0.022 lb/100 lb of BOD5 input | 0.011 lb/100 lb of BOD5 input | 0.022 lb/100 lb of BOD5 input | 0.011 lb/100 lb of BOD5 input |
| TSS | .150 lb/100 lb of BOD5 input | .060 lb/100 lb of BOD5 input | .028 lb/100 lb of BOD5 input | .014 lb/100 lb of BOD5 input | .028 lb/100 lb of BOD5 input | .014 lb/100 lb of BOD5 input |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (b) For whey drying plants with an input equivalent to 57,000 lb/day or less of 40 percent solids whey (under 22,800 lb/day solids or 15,620 lb/day of BOD5 input). | | | | | | |
| BOD5 | 0.130 lb/100 lb of BOD5 input | 0.065 lb/100 lb of BOD5 input | 0.033 lb/100 lb of BOD5 input | 0.016 lb/100 lb of BOD5 input | 0.022 lb/100 lb of BOD5 input | 0.011 lb/100 lb of BOD5 input |
| TSS | .195 lb/100 lb of BOD5 input | .098 lb/100 lb of BOD5 input | .041 lb/100 lb of BOD5 input | .020 lb/100 lb of BOD5 input | .028 lb/100 lb of BOD5 input | .014 lb/100 lb of BOD5 input |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 406 - GRAIN MILLS | FINAL REGULATIONS, PUBLISHED 3/20/74, EFFECTIVE 5/20/74 | | | | | |
| Subpart A - Corn Wet Milling Subcategory | | | | | | |
| BOD5 | 150 lb/1000 std bu corn | 50 lb/1000 std bu corn | 60 lb/1000 std bu corn | 20 lb/1000 std bu corn | 60 lb/1000 std bu corn | 20 lb/1000 std bu corn |
| TSS | 150 lb/1000 std bu corn | 50 lb/1000 std bu corn | 30 lb/1000 std bu corn | 10 lb/1000 std bu corn | 30 lb/1000 std bu corn | 10 lb/1000 std bu corn |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart B - Corn Dry Milling Subcategory | | | | | | |
| BOD5 | 12.0 lb/1000 std bu corn | 4.0 lb/1000 std bu corn | 6.0 lb/1000 std bu corn | 2.0 lb/1000 std bu corn | 6.0 lb/1000 std bu corn | 2.0 lb/1000 std bu corn |
| TSS | 10.5 lb/1000 std bu corn | 3.5 lb/1000 std bu corn | 3.0 lb/1000 std bu corn | 1.0 lb/1000 std bu corn | 3.0 lb/1000 std bu corn | 1.0 lb/1000 std bu corn |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart C - Normal Wheat Flour Milling Subcategory | | | | | | |
| | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| Subpart D - Bulgur Wheat Flour Milling Subcategory | | | | | | |
| BOD5 | 1.50 lb/1000 std bu corn | 0.50 lb/1000 std bu corn | 0.90 lb/1000 std bu corn | 0.30 lb/1000 std bu corn | 0.90 lb/1000 std bu corn | 0.30 lb/1000 std bu corn |
| TSS | 1.50 lb/1000 std bu corn | .50 lb/1000 std bu corn | .60 lb/1000 std bu corn | .20 lb/1000 std bu corn | .60 lb/1000 std bu corn | .20 lb/1000 std bu corn |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart E - Normal Rice Milling Subcategory | | | | | | |
| | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 406 - GRAIN MILLS (Continued) | FINAL REGULATIONS, PUBLISHED 3/20/74, EFFECTIVE 5/20/74 | | | | | |
| Subpart F - Parboiled Rice Processing Subcategory | | | | | | |
| BOD5 | 0.042 lb/100 wt rice | 0.014 lb/100 wt rice | 0.021 lb/100 wt rice | 0.007 lb/100 wt rice | 0.021 lb/100 wt rice | 0.007 lb/100 wt rice |
| TSS | .024 lb/100 wt rice | .008 lb/100 wt rice | .009 lb/100 wt rice | .003 lb/100 wt rice | .009 lb/100 wt rice | .003 lb/100 wtrice |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 407 - CANNED AND PRESERVED FRUITS AND VEGETABLES | | | FINAL REGULATIONS, PUBLISHED 3/21/74, EFFECTIVE 5/20/74 (All references to lb/1000 lb are to 1000 lb of raw material) | | | |
| Subpart A - Apple Juice Subcategory | | | | | | |
| BOD5 | 0.60 lb/1000 lb | 0.30 lb/1000 lb | 0.20 lb/1000 lb | 0.10 lb/1000 lb | 0.20 lb/1000 lb | 0.10 lb/1000 lb |
| TSS | .80 lb/1000 lb | .40 lb/1000 lb | .20 lb/1000 lb | .10 lb/1000 lb | .20 lb/1000 lb | .10 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Fecal Coliform | | | Max. at any time 400 counts/100 ml | | Max. at any time 400 counts/100 ml | |
| Subpart B - Apple Products Subcategory | | | | | | |
| BOD5 | 1.10 lb/1000 lb | 0.55 lb/1000 lb | 0.20 lb/1000 lb | 0.10 lb/1000 lb | 0.20 lb/1000 lb | 0.10 lb/1000 lb |
| TSS | 1.40 lb/1000 lb | .70 lb/1000 lb | .20 lb/1000 lb | .10 lb/1000 lb | .20 lb/1000 lb | .10 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Fecal Coliform | | | Max. at any time 400 counts/100 ml | | Max. at any time 400 counts/100 ml | |
| Subpart C - Citrus Products Subcategory | | | | | | |
| BOD5 | 0.80 lb/1000 lb | 0.40 lb/1000 lb | 0.14 lb/1000 lb | 0.07 lb/1000 lb | 0.14 lb/1000 lb | 0.07 lb/1000 lb |
| TSS | 1.70 lb/1000 lb | 0.85 lb/1000 lb | .20 lb/1000 lb | .10 lb/1000 lb | .20 lb/1000 lb | .10 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Fecal Coliform | | | Max. at any time 400 counts/100 ml | | Max. at any time 400 counts/100 ml | |
| Subpart D - Frozen Potato Products Subcategory | | | | | | |
| BOD5 | 2.80 lb/1000 lb | 1.40 lb/1000 lb | 0.34 lb/1000 lb | 0.17 lb/1000 lb | 0.34 lb/1000 lb | 0.17 lb/1000 lb |
| TSS | 2.80 lb/1000 lb | 1.40 lb/1000 lb | 1.10 lb/1000 lb | .55 lb/1000 lb | 1.10 lb/1000 lb | .55 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Fecal Coliform | | | Max. at any time 400 counts/100 ml | | Max. at any time 400 counts/100 ml | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 407 - CANNED AND PRESERVED FRUITS AND VEGETABLES | | | FINAL REGULATIONS, PUBLISHED 3/21/74, EFFECTIVE 5/20/74 | | | |
| Subpart E - Dehydrated Potato Products Subcategory | | | | | | |
| BOD5 | 2.40 lb/1000 lb | 1.20 lb/1000 lb | 0.34 lb/1000 lb | 0.17 lb/1000 lb | 0.34 lb/1000 lb | 0.17 lb/1000 lb |
| TSS | 2.80 lb/1000 lb | 1.40 lb/1000 lb | 1.10 lb/1000 lb | .55 lb/1000 lb | 1.10 lb/1000 lb | .55 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Fecal Coliform | | | Max. at any time 400 counts/100 ml | | Max. at any time 400 counts/100 ml | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 408 - CANNED AND PRESERVED SEAFOOD | FINAL REGULATIONS, PUBLISHED 6/26/74, EFFECTIVE 6/26/74 (All references to lb/1000 lb are to 1000 lb of seafood) | | | | | |
| Subpart A - Farm Raised Catfish Processing Subcategory | | | | | | |
| BOD5 | | | 4.6 lb/1000 lb | 2.3 lb/1000 lb | 4.6 lb/1000 lb | 2.3 lb/1000 lb |
| TSS | 28 lb/1000 lb | 9.2 lb/1000 lb | 11 lb/1000 lb | 5.7 lb/1000 lb | 11 lb/1000 lb | 5.7 lb/1000 lb |
| Oil & Grease | 10 lb/1000 lb | 3.4 lb/1000 lb | 0.90 lb/1000 lb | 0.45 lb/1000 lb | 0.90 lb/1000 lb | 0.45 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart B - Conventional Blue Crab Processing Subcategory | | | | | | |
| BOD5 | | | 0.30 lb/1000 lb | 0.15 lb/1000 lb | 0.30 lb/1000 lb | 0.15 lb/1000 lb |
| TSS | 2.2 lb/1000 lb | 0.74 lb/1000 lb | 0.90 lb/1000 lb | 0.45 lb/1000 lb | 0.90 lb/1000 lb | 0.45 lb/1000 lb |
| Oil & Grease | 0.60 lb/1000 lb | 0.20 lb/1000 lb | 0.13 lb/1000 lb | 0.065 lb/1000 lb | 0.13 lb/1000 lb | 0.065 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart C - Mechanized Blue Crab Processing Subcategory | | | | | | |
| BOD5 | | | 5.0 lb/1000 lb | 2.5 lb/1000 lb | 5.0 lb/1000 lb | 2.5 lb/1000 lb |
| TSS | 36 lb/1000 lb | 12.0 lb/1000 lb | 13 lb/1000 lb | 6.3 lb/1000 lb | 13 lb/1000 lb | 6.3 lb/1000 lb |
| Oil & Grease | 13 lb/1000 lb | 4.2 lb/1000 lb | 2.6 lb/1000 lb | 1.3 lb/1000 lb | 2.6 lb/1000 lb | 1.3 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 408 - CANNED AND PRESERVED SEAFOOD (Continued) | | | FINAL REGULATIONS, PUBLISHED 6/26/74, EFFECTIVE 6/26/74 | | | |
| Subpart D - Non-Remote Alaskan Crab Meat Processing Subcategory | | | | | | |
| BOD5 | | | 5.0 lb/1000 lb | 2.0 lb/1000 lb | | |
| TSS | 19 lb/1000 lb | 6.2 lb/1000 lb | 1.3 lb/1000 lb | 0.53 lb/1000 lb | 16 lb/1000 lb | 5.3 lb/1000 lb |
| Oil & Grease | 1.8 lb/1000 lb | 0.01 lb/1000 lb | 0.21 lb/1000 lb | 0.082 lb/1000 lb | 1.6 lb/1000 lb | 0.52 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart E - Remote Alaskan Crab Meat Processing Subcategory | | | | | | |
| TSS | No pollutants may be discharged which exceed 1.27 cm (0.5 inch) in any dimension. | | 16 lb/1000 lb | 5.3 lb/1000 lb | 16 lb/1000 lb | 5.3 lb/1000 lb |
| Oil & Grease | | | 1.6 lb/1000 lb | 0.52 lb/1000 lb | 1.6 lb/1000 lb | 0.52 lb/1000 lb |
| pH | | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart F - Non-Remote Alaskan Whole Crab and Crab Section Processing Subcategory | | | | | | |
| BOD5 | | | 3.3 lb/1000 lb | 1.3 lb/1000 lb | | |
| TSS | 12 lb/1000 lb | 3.9 lb/1000 lb | 0.83 lb/1000 lb | 0.33 lb/1000 lb | 9.9 lb/1000 lb | 3.3 lb/1000 lb |
| Oil & Grease | 1.3 lb/1000 lb | 0.42 lb/1000 lb | 0.12 lb/1000 lb | 0.048 lb/1000 lb | 1.1 lb/1000 lb | 0.36 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart G - Remote Alaskan Whole Crab and Crab Section Processing Subcategory | | | | | | |
| TSS | No pollutants may be discharged which exceed 1.27 cm (0.5 inch) in any dimension. | | 9.9 lb/1000 lb | 3.3 lb/1000 lb | 9.9 lb/1000 lb | 3.3 lb/1000 lb |
| Oil & Grease | | | 1.1 lb/1000 lb | 0.36 lb/1000 lb | 1.1 lb/1000 lb | 0.36 lb/1000 lb |
| pH | | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 408 - CANNED AND PRESERVED SEAFOOD (Continued) | | | FINAL REGULATIONS, PUBLISHED 6/26/74, EFFECTIVE 6/26/74 | | | |
| Subpart H - Dungeness and Tanner Crab Processing in the Contiguous States Subcategory | | | | | | |
| BOD5 | | | 4.3 lb/1000 lb | 1.7 lb/1000 lb | 10 lb/1000 lb | 4.1 lb/1000 lb |
| TSS | 8.1 lb/1000 lb | 2.7 lb/1000 lb | 0.58 lb/1000 lb | 0.23 lb/1000 lb | 1.7 lb/1000 lb | 0.69 lb/1000 lb |
| Oil & Grease | 1.8 lb/1000 lb | 0.61 lb/1000 lb | 0.18 lb/1000 lb | 0.07 lb/1000 lb | 0.25 lb/1000 lb | 0.10 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart I - Non-Remote Alaskan Shrimp Processing Subcategory | | | | | | |
| BOD5 | | | 70 lb/1000 lb | 28 lb/1000 lb | | |
| TSS | 320 lb/1000 lb | 210 lb/1000 lb | 45 lb/1000 lb | 18 lb/1000 lb | 270 lb/1000 lb | 180 lb/1000 lb |
| Oil & Grease | 51 lb/1000 lb | 17 lb/1000 lb | 3.8 lb/1000 lb | 1.5 lb/1000 lb | 45 lb/1000 lb | 15 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart J - Remote Alaskan Shrimp Processing Subcategory | | | | | | |
| TSS | No pollutants may be discharged which exceed 1.27 cm (0.5 inch) in any dimension. | | 270 lb/1000 lb | 180 lb/1000 lb | 270 lb/1000 lb | 180 lb/1000 lb |
| Oil & Grease | | | 45 lb/1000 lb | 15 lb/1000 lb | 45 lb/1000 lb | 15 lb/1000 lb |
| pH | | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart K - Northern Shrimp Processing in the Contiguous States Subcategory | | | | | | |
| BOD5 | | | 68 lb/1000 lb | 27.0 lb/1000 lb | 155 lb/1000 lb | 62 lb/1000 lb |
| TSS | 160 lb/1000 lb | 54 lb/1000 lb | 12 lb/1000 lb | 4.9 lb/1000 lb | 38 lb/1000 lb | 15 lb/1000 lb |
| Oil & Grease | 126 lb/1000 lb | 42 lb/1000 lb | 9.5 lb/1000 lb | 3.8 lb/1000 lb | 14 lb/1000 lb | 5.7 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 408 - CANNED AND PRESERVED SEAFOOD (Continued) | | | FINAL REGULATIONS, PUBLISHED 6/26/74, EFFECTIVE 6/26/74 | | | |
| Subpart L - Southern Non-Breaded Shrimp Processing in the Contiguous States Subcategory | | | | | | |
| BOD5 | | | 25 lb/1000 lb | 10 lb/1000 lb | 63 lb/1000 lb | 25 lb/1000 lb |
| TSS | 110 lb/1000 lb | 38 lb/1000 lb | 8.5 lb/1000 lb | 3.4 lb/1000 lb | 25 lb/1000 lb | 10 lb/1000 lb |
| Oil & Grease | 36 lb/1000 lb | 12 lb/1000 lb | 2.8 lb/1000 lb | 1.1 lb/1000 lb | 4.0 lb/1000 lb | 1.6 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart M - Breaded Shrimp Processing in the Contiguous States Subcategory | | | | | | |
| BOD5 | | | 43 lb/1000 lb | 17.0 lb/1000 lb | 100 lb/1000 lb | 40 lb/1000 lb |
| TSS | 280 lb/1000 lb | 93 lb/1000 lb | 19 lb/1000 lb | 7.4 lb/1000 lb | 55 lb/1000 lb | 22 lb/1000 lb |
| Oil & Grease | 36 lb/1000 lb | 12 lb/1000 lb | 2.5 lb/1000 lb | 1.0 lb/1000 lb | 3.8 lb/1000 lb | 1.5 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart N - Tuna Processing Subcategory | | | | | | |
| BOD5 | 23 lb/1000 lb | 9.0 lb/1000 lb | 2.2 lb/1000 lb | 0.62 lb/1000 lb | 20 lb/1000 lb | 8.1 lb/1000 lb |
| TSS | 8.3 lb/1000 lb | 3.3 lb/1000 lb | 2.2 lb/1000 lb | 0.62 lb/1000 lb | 7.5 lb/1000 lb | 3.0 lb/1000 lb |
| Oil & Grease | 2.1 lb/1000 lb | 0.84 lb/1000 lb | 0.27 lb/1000 lb | 0.077 lb/1000 lb | 1.9 lb/1000 lb | 0.76 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 409 - SUGAR PROCESSING INDUSTRIES | FINAL REGULATIONS PUBLISHED 1/31/74, EFFECTIVE 4/1/74 (All references to lb/1000 lb are to 1000 lb of product) | | | | | |
| Subpart A - Beet Sugar Processing Subcategory | | | | | | |
| | (a) The following limitations establish the maximum permissible discharge of process waste water pollutants when the process waste water discharge results from barometric condensing operations only: | | (a) Sugar beet processing capacity of the point source does not exceed 2300 tons/day of beets sliced and/or the soil filtration rate in the vicinity of the point source is less than or equal to 1/16 in./day; provided however, that a discharge by a point source may be made in accordance with the limitations set forth in either (a)(1) exclusively, or (a)(2) of this section exclusively.<br><br>(1) The following limitations establish the maximum permissible discharge of process waste water pollutants when the process waste water discharge results from barometric condensing operations only: | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| BOD5 | 3.3 lb/1000 lb | 2.2 lb/1000 lb | 2.0 lb/1000 lb | 1.3 lb/1000 lb | | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | | |
| Temperature | Not to exceed temp. of cooled water acceptable for return to the heat producing process and in no event greater than 90°F. | | Not to exceed the temp. of cooled water acceptable for return to the heat producing process and in no event greater than 90°F. | | | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 409 - SUGAR PROCESSING INDUSTRIES (Continued) | | | FINAL REGULATIONS PUBLISHED 1/31/74, EFFECTIVE 4/1/74 | | | |
| Subpart A - Beet Sugar Processing Subcategory (Continued) | | | | | | |
| | (b) The following limitations establish the maximum permissible discharge of process waste water pollutants when the process waste water discharge results, in whole or in part, from barometric condensing operations and any other beet sugar processing operation: | | (2) The following limitations establish the maximum permissible discharge of process waste water pollutants when the process waste water discharge results, in whole or in part, from barometric condensing operations and any other beet sugar processing operation: | | | |
| BOD5 | 3.3 lb/1000 lb | 2.2 lb/1000 lb | 2.0 lb/1000 lb | 1.3 lb/1000 lb | | |
| TSS | 3.3 lb/1000 lb | 2.2 lb/1000 lb | 2.0 lb/1000 lb | 1.3 lb/1000 lb | | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | | |
| Fecal Coliform | Not to exceed MPN of 400/100 ml at any time | | Not to exceed MPN of 400/100 ml at any time | | | |
| Temperature | Not to exceed 90°F | | Not to exceed 90°F | | | |
| | | | (b) The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this regulation, which may be discharged by a point source in all instances not specified under the provisions of (a) above; there shall be no discharge of process waste water pollutants to navigable waters. | | | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 409 - SUGAR PROCESSING CATEGORY | | FINAL REGULATIONS, PUBLISHED 3/20/74, EFFECTIVE 5/20/74 | | | | |
| Subpart B - Crystalline Cane Sugar Refining Subcategory | | | | | | |
| | (1) Any crystalline cane sugar refinery discharging both barometric condenser cooling water and other process waters shall meet the following limitations. The BOD5 limitation is determined by the addition of the net BOD5 attributed to the barometric condenser cooling water to that amount of BOD5 attributed to the treated process water. The TSS limitation is that amount of TSS attributed to the treated process water. Where the barometric condenser cooling water and process water streams are mixed and impossible to measure separately prior to discharge, the values should be considered net. | | | | | |
| BOD5 | 2.38 lb/ton of melt | 0.86 lb/ton of melt | 0.36 lb/ton of melt | 0.18 lb/ton of melt | 0.36 lb/ton of melt | 0.18 lb/ton of melt |
| TSS | .54 lb/ton of melt | .18 lb/ton of melt | .21 lb/ton of melt | .07 lb/ton of melt | .21 lb/ton of melt | .07 lb/ton of melt |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| | (2) Any crystalline cane sugar refinery discharging barometric condenser cooling water only should be required to achieve the following net limitations: | | | | | |
| BOD5 | 2.04 lb/ton of melt | 0.68 lb/ton of melt | | | | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 409 - SUGAR PROCESSING CATEGORY | FINAL REGULATIONS, PUBLISHED 3/20/74, EFFECTIVE 5/20/74 | | | | | |
| Subpart C - Liquid Cane Sugar Refining Subcategory | | | | | | |
| | (1) Any liquid cane sugar refinery discharging both barometric condenser cooling water and other process waters shall meet the following limitations. The BOD5 limitation is determined by the addition of the net BOD5 attributed to the barometric condenser cooling water to that amount of BOD5 attributed to the treated process water. The TSS limitation is that amount of TSS attributed to the treated process water. Where the barometric condenser cooling water and process water streams are mixed and impossible to measure separately prior to discharge, the values should be considered net. | | | | | |
| BOD5 | 1.56 lb/ton of melt | 0.63 lb/ton of melt | 0.60 lb/ton of melt | 0.30 lb/ton of melt | 0.60 lb/ton of melt | 0.30 lb/ton of melt |
| TSS | .99 lb/ton of melt | .33 lb/ton of melt | .18 lb/ton of melt | .06 lb/ton of melt | .18 lb/ton of melt | .06 lb/ton of melt |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| | (2) Any liquid cane sugar refinery discharging barometric condenser cooling water only shall meet the following net limitations: | | | | | |
| BOD5 | 0.90 lb/ton of melt | 0.30 lb/ton of melt | | | | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 410 - TEXTILE INDUSTRY | FINAL REGULATIONS, PUBLISHED 7/5/74, EFFECTIVE 7/5/74 (All references to lb/1000 lb are to 1000 lb of product) | | | | | |
| Subpart A - Wool Scouring Subcategory | | | | | | |
| | (a) | | | | | |
| BOD5 | 10.6 lb/1000 lb | 5.3 lb/1000 lb | 4.8 lb/1000 lb | 2.4 lb/1000 lb | 10.6 lb/1000 lb | 5.3 lb/1000 lb |
| TSS | 32.2 lb/1000 lb | 16.1 lb/1000 lb | 4.0 lb/1000 lb | 2.0 lb/1000 lb | 10.6 lb/1000 lb | 5.3 lb/1000 lb |
| COD | 138.0 lb/1000 lb | 69.0 lb/1000 lb | 36.0 lb/1000 lb | 18.0 lb/1000 lb | 138.0 lb/1000 lb | 69.0 lb/1000 lb |
| Oil & Grease | 7.2 lb/1000 lb | 3.6 lb/1000 lb | 2.0 lb/1000 lb | 1.0 lb/1000 lb | 7.2 lb/1000 lb | 3.6 lb/1000 lb |
| Total Chromium | 0.10 lb/1000 lb | 0.05 lb/1000 lb | 0.05 lb/1000 lb | 0.025 lb/1000 lb | 0.10 lb/1000 lb | 0.05 lb/1000 lb |
| Phenol | 0.10 lb/1000 lb | 0.05 lb/1000 lb | 0.05 lb/1000 lb | 0.025 lb/1000 lb | 0.10 lb/1000 lb | 0.05 lb/1000 lb |
| Sulfide | 0.20 lb/1000 lb | 0.10 lb/1000 lb | 0.10 lb/1000 lb | 0.05 lb/1000 lb | 0.20 lb/1000 lb | 0.10 lb/1000 lb |
| Color | | | Shall not exceed 600 APHA units. | | | |
| Fecal Coliform | | | MPN shall not exceed 400 counts per 100 ml. | | | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| | (b) Additional allocations equal to the effluent limitations (except pH) established in (a) of this section are allowed any point source subject to such effluent limitations that scours wool through "commission scouring" as defined. | | (b) Additional allocations equal to the effluent limitations (except pH) established in (a) of this section are allowed any point source subject to such effluent limitations that scours wool through "commission scouring" as defined. | | (b) Additional allocations equal to the effluent limitations (except pH) established in (a) of this section are allowed any point source subject to such effluent limitations that scours wool through "commission scouring" as defined. | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 410 - TEXTILE INDUSTRY (Continued) | FINAL REGULATIONS, PUBLISHED 7/5/74, EFFECTIVE 7/5/74 | | | | | |
| Subpart B - Wool Finishing Subcategory | | | | | | |
| | (a) | | | | | |
| BOD5 | 22.4 lb/1000 lb | 11.2 lb/1000 lb | 9.2 lb/1000 lb | 4.6 lb/1000 lb | 22.4 lb/1000 lb | 11.2 lb/1000 lb |
| TSS | 35.2 lb/1000 lb | 17.6 lb/1000 lb | 5.0 lb/1000 | 2.5 lb/1000 lb | 22.4 lb/1000 lb | 11.2 lb/1000 lb |
| COD | 163.0 lb/1000 lb | 81.5 lb/1000 lb | 54.2 lb/1000 lb | 27.1 lb/1000 lb | 163.0 lb/1000 lb | 81.5 lb/1000 lb |
| Total Chromium | 0.14 lb/1000 lb | 0.07 lb/1000 lb | 0.05 lb/1000 lb | 0.025 lb/1000 lb | 0.14 lb/1000 lb | 0.07 lb/1000 lb |
| Phenol | 0.14 lb/1000 lb | 0.07 lb/1000 lb | 0.05 lb/1000 lb | 0.025 lb/1000 lb | 0.14 lb/1000 lb | 0.07 lb/1000 lb |
| Sulfide | 0.28 lb/1000 lb | 0.14 lb/1000 lb | 0.10 lb/1000 lb | 0.05 lb/1000 lb | 0.28 lb/1000 lb | 0.14 lb/1000 lb |
| Color | | | Shall not exceed 600 APHA units. | | | |
| Fecal Coliform | | | MPN shall not exceed 400 counts per 100 ml. | | | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| | (b) | | (b) | | (b) | |
| | Additional allocations equal to the effluent limitations (except pH) established in (a) of this section are allowed any point source subject to such effluent limitations that finishes wool or blended wool fabrics through "commission finishing" as defined. | | Additional allocations equal to the effluent limitations (except pH) established in (a) of this section are allowed any point source subject to such effluent limitations that finishes wool or blended wool fabrics through "commission finishing" as defined. | | Additional allocations equal to the effluent limitations (except pH) established in (a) of this section are allowed any point source subject to such effluent limitations that finishes wool or blended wool fabrics through "commission finishing" as defined. | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 410 - TEXTILE INDUSTRY (Continued) | FINAL REGULATIONS, PUBLISHED 7/5/74, EFFECTIVE 7/5/74 | | | | | |
| Subpart C - Dry Processing Subcategory | | | | | | |
| BOD5 | 1.4 lb/1000 lb | 0.7 lb/1000 lb | 0.4 lb/1000 lb | 0.2 lb/1000 lb | 1.4 lb/1000 lb | 0.7 lb/1000 lb |
| TSS | 1.4 lb/1000 lb | 0.7 lb/1000 lb | 0.4 lb/1000 lb | 0.2 lb/1000 lb | 1.4 lb/1000 lb | 0.7 lb/1000 lb |
| COD | 2.8 lb/1000 lb | 1.4 lb/1000 lb | 0.8 lb/1000 lb | 0.4 lb/1000 lb | 2.8 lb/1000 lb | 2.4 lb/1000 lb |
| Fecal Coliform | MPN shall not exceed 400 counts per 100 ml. | | MPN shall not exceed 400 counts per 100 ml. | | MPN shall not exceed 400 counts per 100 ml | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart D - Woven Fabric Finishing Subcategory | | | | | | |
| (a) Finishing of woven fabrics through simple or complex manufacturing operations employing a natural fiber, a synthetic fiber or a natural and synthetic fiber blend, except as provided in (e) of this section: | | | | | | |
| BOD5 | 6.6 lb/1000 lb | 3.3 lb/1000 lb | 4.4 lb/1000 lb | 2.2 lb/1000 lb | 6.6 lb/1000 lb | 3.3 lb/1000 lb |
| TSS | 17.8 lb/1000 lb | 8.9 lb/1000 lb | 3.0 lb/1000 lb | 1.5 lb/1000 lb | 6.6 lb/1000 lb | 3.3 lb/1000 lb |
| COD | 60.0 lb/1000 lb | 30.0 lb/1000 lb | 20.0 lb/1000 lb | 10.0 lb/1000 lb | 60.0 lb/1000 lb | 30.0 lb/1000 lb |
| Total Chromium | 0.10 lb/1000 lb | 0.05 lb/1000 lb | 0.10 lb/1000 lb | 0.05 lb/1000 lb | 0.10 lb/1000 lb | 0.05 lb/1000 lb |
| Phenol | 0.10 lb/1000 lb | 0.05 lb/1000 lb | 0.10 lb/1000 lb | 0.05 lb/1000 lb | 0.10 lb/1000 lb | 0.05 lb/1000 lb |
| Sulfide | 0.20 lb/1000 lb | 0.10 lb/1000 lb | 0.20 lb/1000 lb | 0.10 lb/1000 lb | 0.20 lb/1000 lb | 0.10 lb/1000 lb |
| Color | | | Shall not exceed 300 APHA units | | | |
| Fecal Coliform | | | MPN shall not exceed 400 counts per 100 ml. | | | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 410 - TEXTILE INDUSTRY (Continued) | FINAL REGULATIONS, PUBLISHED 7/5/74, EFFECTIVE 7/5/74 | | | | | |
| Subpart D - Woven Fabric Finishing Subcategory (Continued) | | | | | | |
| (b) Finishing of woven fabrics through simple manufacturing operations employing a synthetic fiber or complex manufacturing operations employing a natural fiber, except as provided in (e) of this section and in addition to the discharge allowed by (a) of this section: | | | | | | |
| COD | 20 lb/1000 lb | 10 lb/1000 lb | 6.6 lb/1000 lb | 3.3 lb/1000 lb | 20 lb/1000 lb | 10 lb/1000 lb |
| (c) Finishing of woven fabrics through simple manufacturing operations employing a natural and synthetic fiber blend or through complex manufacturing operations employing a synthetic fiber, except as provided in (e) of this section and in addition to the discharge allowed by (a) of this section: | | | | | | |
| COD | 40 lb/1000 lb | 20 lb/1000 lb | 13.4 lb/1000 lb | 6.7 lb/1000 lb | 40 lb/1000 lb | 20 lb/1000 lb |
| (d) Finishing of woven fabrics through complex manufacturing operations employing a natural and synthetic fiber blend, except as provided in (e) of this section and in addition to the discharge allowed by (a) of this section: | | | | | | |
| COD | 60 lb/1000 lb | 30 lb/1000 lb | 20 lb/1000 lb | 10 lb/1000 lb | 60 lb/1000 lb | 30 lb/1000 lb |
| (e) Additional allocations equal to the effluent limitations (except pH) established in (a), (b), (c) and (d) of this section are allowed any point source subject to such effluent limitations that finishes woven fabrics through "commission finishing" as defined. | | | | | | |
| Subpart E - Knit Fabric Finishing Subcategory | | | | | | |
| (a) Finishing of knit fabrics through simple or complex manufacturing operations employing a synthetic fiber or a natural and synthetic fiber blend, except as provided in (d) of this section: | | | | | | |
| BOD5 | 5.0 lb/1000 lb | 2.5 lb/1000 lb | 3.4 lb/1000 lb | 1.7 lb/1000 lb | 5.0 lb/1000 lb | 2.5 lb/1000 lb |
| TSS | 21.8 lb/1000 lb | 10.9 lb/1000 lb | 3.4 lb/1000 lb | 1.7 lb/1000 lb | 5.0 lb/1000 lb | 2.5 lb/1000 lb |
| COD | 60.0 lb/1000 lb | 30.0 lb/1000 lb | 20.0 lb/1000 lb | 10.0 lb/1000 lb | 60.0 lb/1000 lb | 30.0 lb/1000 lb |
| Total Chromium | 0.10 lb/1000 lb | 0.05 lb/1000 lb | 0.10 lb/1000 lb | 0.05 lb/1000 lb | 0.10 lb/1000 lb | 0.05 lb/1000 lb |
| Phenol | 0.10 lb/1000 lb | 0.05 lb/1000 lb | 0.10 lb/1000 lb | 0.05 lb/1000 lb | 0.10 lb/1000 lb | 0.05 lb/1000 lb |
| Sulfide | 0.20 lb/1000 lb | 0.10 lb/1000 lb | 0.20 lb/1000 lb | 0.10 lb/1000 lb | 0.20 lb/1000 lb | 0.10 lb/1000 lb |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 410 - TEXTILE INDUSTRY (Continued) | FINAL REGULATIONS, PUBLISHED 7/5/74, EFFECTIVE 7/5/74 | | | | | |
| Subpart E - Knit Fabric Finishing Subcategory (Continued) | | | | | | |
| (a) Finishing of knit fabrics through simple or complex manufacturing operations employing a synthetic fiber or a natural and synthetic fiber blend, except as provided in (d) of this section: (continued) | | | | | | |
| Color | | | Shall not exceed 300 APHA units. | | | |
| Fecal Coliform | | | MPN shall not exceed 400 counts per 100 ml. | | | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (b) Finishing of knit fabrics through simple manufacturing operations employing a natural and synthetic fiber blend or through complex manufacturing operations employing a synthetic fiber, except as provided in (d) of this section and in addition to the discharge allowed by (a) of this section: | | | | | | |
| COD | 20 lb/1000 lb | 10 lb/1000 lb | 6.6 lb/1000 lb | 3.3 lb/1000 lb | 20 lb/1000 lb | 10 lb/1000 lb |
| (c) Finishing of knit fabrics through complex manufacturing operations employing a natural and synthetic fiber blend, except as provided in (d) of this section and in addition to the discharge allowed by (a) of this section: | | | | | | |
| COD | 40 lb/1000 lb | 20 lb/1000 lb | 13.4 lb/1000 lb | 6.7 lb/1000 lb | 40 lb/1000 lb | 20 lb/1000 lb |
| (d) Additional allocations equal to the effluent limitations(except pH) established in (a), (b), and (c) of this section are allowed any point source subject to such effluent limitations that finish knit fabrics through "commission finishing" as defined. | | | | | | |
| Subpart F - Carpet Mills Subcategory | | | | | | |
| (a) Manufacture of carpets through simple or complex manufacturing operations: | | | | | | |
| BOD5 | 7.8 lb/1000 lb | 3.9 lb/1000 lb | 4.0 lb/1000 lb | 2.0 lb/1000 lb | 7.8 lb/1000 lb | 3.9 lb/1000 lb |
| TSS | 11.0 lb/1000 lb | 5.5 lb/1000 lb | 2.0 lb/1000 lb | 1.0 lb/1000 lb | 7.8 lb/1000 lb | 3.9 lb/1000 lb |
| COD | 70.2 lb/1000 lb | 35.1 lb/1000 lb | 23.4 lb/1000 lb | 11.7 lb/1000 lb | 70.2 lb/1000 lb | 35.1 lb/1000 lb |
| Total Chromium | 0.04 lb/1000 lb | 0.02 lb/1000 lb | 0.04 lb/1000 lb | 0.02 lb/1000 lb | 0.04 lb/1000 lb | 0.02 lb/1000 lb |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 410 - TEXTILE INDUSTRY (Continued) | FINAL REGULATIONS, PUBLISHED 7/5/74, EFFECTIVE 7/5/74 | | | | | |
| Subpart F - Carpet Mills Subcategory (Continued) | | | | | | |
| (a) Manufacture of carpets through simple or complex manufacturing operations: (continued) | | | | | | |
| Phenol | 0.04 lb/1000 lb | 0.02 lb/1000 lb | 0.04 lb/1000 lb | 0.02 lb/1000 lb | 0.04 lb/1000 lb | 0.02 lb/1000 lb |
| Sulfide | 0.08 lb/1000 lb | 0.04 lb/1000 lb | 0.08 lb/1000 lb | 0.04 lb/1000 lb | 0.08 lb/1000 lb | 0.04 lb/1000 lb |
| Color | | | Shall not exceed 225 APHA units. | | | |
| Fecal Coliform | | | MPN shall not exceed 400 counts per 100 ml. | | | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (b) Manufacture of carpets through complex manufacturing operations, in addition to the discharge allowed by (a) of this section: | | | | | | |
| COD | 20 lb/1000 lb | 10 lb/1000 lb | 6.6 lb/1000 lb | 3.3 lb/1000 lb | 20 lb/1000 lb | 10 lb/1000 lb |
| Subpart G - Stock and Yarn Dyeing and Finishing Subcategory | | | | | | |
| (a) | | | | | | |
| BOD5 | 6.8 lb/1000 lb | 3.4 lb/1000 lb | 4.6 lb/1000 lb | 2.3 lb/1000 lb | 6.8 lb/1000 lb | 3.4 lb/1000 lb |
| TSS | 17.4 lb/1000 lb | 8.7 lb/1000 lb | 3.8 lb/1000 lb | 1.9 lb/1000 lb | 6.8 lb/1000 lb | 3.4 lb/1000 lb |
| COD | 84.6 lb/1000 lb | 42.3 lb/1000 lb | 28.1 lb/1000 lb | 14.1 lb/1000 lb | 84.6 lb/1000 lb | 42.3 lb/1000 lb |
| Total Chromium | 0.12 lb/1000 lb | 0.06 lb/1000 lb | 0.12 lb/1000 lb | 0.06 lb/1000 lb | 0.12 lb/1000 lb | 0.06 lb/1000 lb |
| Phenol | 0.12 lb/1000 lb | 0.06 lb/1000 lb | 0.12 lb/1000 lb | 0.06 lb/1000 lb | 0.12 lb/1000 lb | 0.06 lb/1000 lb |
| Sulfide | 0.24 lb/1000 lb | 0.12 lb/1000 lb | 0.24 lb/1000 lb | 0.12 lb/1000 lb | 0.24 lb/1000 lb | 0.12 lb/1000 lb |
| Color | | | Shall not exceed 300 APHA units. | | | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 410 - TEXTILE INDUSTRY (Continued) | FINAL REGULATIONS, PUBLISHED 7/5/74, EFFECTIVE 7/5/74 | | | | | |
| Subpart G - Stock and Yarn Dyeing and Finishing Subcategory (Continued) | | | | | | |
| Fecal Coliform | MPN shall not exceed 400 counts per 100 ml. | | | | | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

(b) Additional allocations equal to the effluent limitations (except pH) established in (a) of this section are allowed any point source subject to such effluent limitations that dyes or finishes stock and yarn through "commission finishing" as defined.

| Parameter | *BPT (Maximum for any 1 Day) | BAT (Maximum for any 1 Day) | New Sources (Maximum for any 1 Day) |
|---|---|---|---|
| PART 411 - CEMENT MANUFACTURING | FINAL REGULATIONS, PUBLISHED 2/20/74, EFFECTIVE 4/22/74 | | |
| Subpart A - Nonleaching Subcategory | | | |
| TSS | 0.005 lb/1000 lb of product | 0.005 lb/1000 lb of product | 0.005 lb/1000 lb of product |
| Temperature | NTE 3°C rise above inlet temperature | NTE 3°C rise above inlet temperature | NTE 3°C rise above inlet temperature |
| pH | 6.0 - 9.0 | 6.0 - 9.0 | 6.0 - 9.0 |
| Subpart B - Leaching Subcategory | | | |
| TSS | 0.4 lb/1000 lb of dust leached | 0.005 lb/1000 lb of dust leached | 0.4 lb/1000 lb of dust leached |
| Temperature | NTE 3°C rise above inlet temperature | NTE 3°C rise above inlet temperature | NTE 3°C rise above inlet temperature |
| pH | 6.0 - 9.0 | 6.0 - 9.0 | 6.0 - 9.0 |
| Subpart C - Materials Storage Piles Runoff Subcategory | | | |
| | (a) Subject to the provisions of sub-paragraph (b) of this section, the following limitations apply: | (a) Subject to the provisions of sub-paragraph (b) of this section, the following limitations apply: | No discharge of process waste water pollutants to navigable waters. |
| TSS | Not to exceed 50 mg/l | Not to exceed 50 mg/l | |
| pH | 6.0 - 9.0 | 6.0 - 9.0 | |
| | (b) Any untreated overflow from facilities designed constructed and operated to treat the volume of runoff from materials storage piles which is associated with a 10 year, 24 hour rainfall event shall not be subject to the pH and TSS limitations stipulated in subparagraph (a) above. | (b) Any untreated overflow from facilities designed constructed and operated to treat the volume of runoff from materials storage piles which results from a 10 year, 24 hour rainfall event shall not be subject to the pH and TSS limitations stipulated in subparagraph (a) above. | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|

PART 412 - FEEDLOTS FINAL REGULATIONS, PUBLISHED 2/14/74, EFFECTIVE 4/15/74

Subpart A - All Subcategories Except Ducks

The provisions of this subpart are applicable to discharges of pollutants resulting from feedlots in the following subcategories: Beef cattle--open lots; beef cattle--housed lots; dairy cattle--stall barn (with milk room); dairy--free stall barn (with milking center); dairy--cowyards (with milking center); swine--open dirt or pasture lots; swine--housed, slotted floor; swine--solid concrete floor, open or housed lot; sheep--open lots; sheep--housed lots; horses--stables (race tracks); chickens--broilers, housed; chickens--layers (egg production), housed; chickens--layer breeding or replacement stock, housed; turkeys--open lots; turkeys--housed; and for those feedlot operations within these subcategories as large or larger than the capacities given below:

1,000 slaughter steers and heifers; 700 mature dairy cattle (whether milkers or dry cows); 2,500 swine weighing over 55 pounds; 10,000 sheep; 55,000 turkeys; 100,000 laying hens or broilers when facility has unlimited continuous flow watering systems; 30,000 laying hens or broilers when facility has liquid manure handling system; 500 horses; and 1,000 animal units from a combination of slaughter steers and heifers, mature dairy cattle, swine over 55 pounds and sheep.

| | | |
|---|---|---|
| (a) Subject to the provisions of paragraph (b) of this section, there shall be no discharge of process waste water pollutants to navigable waters. | (a) Subject to the provisions of paragraph (b) of this section, there shall be no discharge of process waste water pollutants to navigable waters. | (a) Subject to the provisions of paragraph (b) of this section, there shall be no discharge of process waste water pollutants to navigable waters. |
| (b) Process waste pollutants in the overflow may be discharged to navigable waters whenever rainfall events, either chronic or catastrophic, cause an overflow of process waste water from a facility designed, constructed and operated to contain all process generated waste waters plus the runoff from a 10 year, 24 hour rainfall event for the location of the point source. | (b) Process waste pollutants in the overflow may be discharged to navigable waters whenever rainfall events, either chronic or catastrophic, cause an overflow of process waste water from a facility designed, constructed and operated to contain all process generated waste waters, plus the runoff from a 25 year, 24 hour rainfall event for the location of the point source. | (b) Process waste pollutants in the overflow may be discharged to navigable waters whenever rainfall events, either chronic, or catastrophic, cause an overflow of process waste water from a facility designed, constructed and operated to contain all process generated waste waters, plus the runoff from a 25 year, 24 hour rainfall event for the location of the point source. |

Subpart B - Ducks Subcategory

The provisions of this subpart are applicable to discharges of pollutants resulting from feedlots for the following subcategories: ducks--dry lot; ducks--wet lot; and for those feedlot operations within these subcategories as large or larger than the capacities given below:

5000 ducks

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 412 - FEEDLOTS (Continued) | FINAL REGULATIONS, PUBLISHED 2/14/74, EFFECTIVE 4/15/74 | | | | | |
| Subpart B - Ducks Subcategory (Continued) | | | | | | |
| BOD5 | 3.66 lb/1000 ducks | 2.00 lb/1000 ducks | (a) Subject to the provisions of paragraph (b) of this section, there shall be no discharge of process waste water pollutants to navigable waters. | | (a) Subject to the provisions of paragraph (b) of this section, there shall be no discharge of process waste water pollutants to navigable waters. | |
| Fecal Coliform | NTE mpn of 400/100 ml at any time | | (b) Process waste pollutants in the overflow may be discharged to navigable waters whenever rainfall events, either chronic or catastrophic, cause an overflow of process waste water from a facility designed, constructed and operated to contain all process generated waste waters plus the runoff from a 25 year, 24 hour rainfall event for the location of the point source. | | (b) Process waste pollutants in the overflow may be discharged to navigable waters whenever rainfall events, either chronic or catastrophic, cause an overflow of process waste water from a facility designed, constructed and operated to contain all process generated waste waters plus the runoff from a 25 year, 24 hour rainfall event for the location of the point source. | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 413 - ELECTROPLATING | FINAL REGULATIONS, PUBLISHED 3/28/74, EFFECTIVE 5/28/74 | | | | | |
| Subpart A - Electroplating of Copper, Nickel, Chromium, and Zinc on Ferrous and Nonferrous Materials Subcategory | | | | | | |
| Cu | (a) 32.7 lb/million sq ft/ operation | 16.4 lb/million sq ft/ operation | (a) There shall be no discharge of process waste water pollutants to navigable waters. | | (a) 16.4 lb/million sq ft/operation | 8.2 lb/million sq ft/operation |
| Ni | 32.7 lb/million sq ft/ operation | 16.4 lb/million sq ft/ operation | | | 16.4 lb/million sq ft/operation | 8.2 lb/million sq ft/operation |
| CrVI | 3.3 lb/million sq ft/ operation | 1.6 lb/million sq ft/ operation | | | 1.6 lb/million sq ft/operation | .8 lb/million sq ft/operation |
| Cr, Total | 32.7 lb/million sq ft/ operation | 16.4 lb/million sq ft/ operation | | | 16.4 lb/million sq ft/operation | **8.2 lb/million sq ft/operation |
| Zn | 32.7 lb/million sq ft/ operation | 16.4 lb/million sq ft/ operation | | | 16.4 lb/million sq ft/operation | **8.2 lb/million sq ft/operation |
| CN,A | 3.3 lb/million sq ft/ operation | 1.6 lb/million sq ft/ operation | | | 1.6 lb/million sq ft/operation | .8 lb/million sq ft/operation |
| CN, Total | 32.7 lb/million sq ft/ operation | 16.4 lb/million sq ft/ operation | | | **16.4 lb/million sq ft/operation | 4.7 lb/million sq ft/operation |
| TSS | 982.0 lb/million sq ft/ operation | 654.0 lb/million sq ft/ operation | | | 491.0 lb/million sq ft/operation | 327.0 lb/million sq ft/operation |
| pH | 6.0 - 9.5 | | | | 6.0 - 9.5 | |

(b) Pursuant to section 308 of the Act, point sources subject to the provisions of this subpart shall maintain records of production expressed in sq m or sq ft for the purpose of determining compliance with the above limitations. For the purpose of complying with the requirements of this paragraph, a discharger may establish a correlation between area plated and another parameter, such as ampere-hours used in plating.

(b) Application of the factors listed in section 304(b) of the Act may require variation from the effluent limitation set forth in this section for any point source subject to such effluent limitation with a production less than 120 sq m per hour. If variation is determined to be necessary for any such source, such source shall be subject to effluent limitations no less stringent than those required by the standards of performance for new sources

**Corrected per 39 FR 26642, July 22, 1974.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|

PART 413 - ELECTROPLATING (Continued) FINAL REGULATIONS, PUBLISHED 3/28/74, EFFECTIVE 5/28/74

Subpart A - Electroplating of Copper, Nickel, Chromium, and Zinc on Ferrous and Nonferrous Materials Subcategory

(c) Application of the factors listed in section 304(b) requires variation from the effluent limitations set forth above for any point source subject to such effluent limitations with a production less than 33 square meters per hour or an installed direct current capacity less than 2000 amperes. For such sources, the best practicable control technology currently available consists of cyanide destruction, if any, equalization and pH adjustment to a range of 6.0 to 9.5** prior to discharge.

**Corrected per 39 FR 26642, July 22, 1974

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 414 - ORGANIC CHEMICALS | FINAL REGULATIONS, PUBLISHED 4/25/74, EFFECTIVE 5/13/74 (All references to lb/1000 lb are to 1000 lb of product) | | | | | |
| Subpart A - Nonaqueous Processes Subcategory | | | | | | |
| BOD5 | 0.045 lb/1000 lb | 0.02 lb/1000 lb | .015 lb/1000 lb | .0085 lb/1000 lb | 0.037 lb/1000 lb | 0.017 lb/1000 lb |
| TSS | .067 lb/1000 lb | .03 lb/1000 lb | .022 lb/1000 lb | .013 lb/1000 lb | .034 lb/1000 lb | .015 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| COD | | | 0.062 lb/1000 lb | 0.045 lb/1000 lb | | |
| Subpart B - Processes with Process Water Contact as Steam Diluent or Absorbent Subcategory | | | | | | |
| (a) The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this paragraph, which may be discharged from the manufacture of acetone, butadiene (co-product of ethylene), ethyl benezene, ethylene and propylene, ethylene dichloride, ethylene oxide, formaldehyde, methanol, methyl amines, vinyl acetate, or vinyl chloride (cracking of ethylene dichloride) by a point source subject to the provisions of this subpart. | | | | | | |
| COD | | | 0.80 lb/1000 lb | 0.58 lb/1000 lb | | |
| BOD5 | 0.13 lb/1000 lb | 0.058 lb/1000 lb | .044 lb/1000 lb | .025 lb/1000 lb | 0.11 lb/1000 lb | 0.048 lb/1000 lb |
| TSS | .20 lb/1000 lb | .088 lb/1000 lb | .066 lb/1000 lb | .040 lb/1000 lb | .10 lb/1000 lb | .044 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (b) The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this paragraph, which may be discharged from the manufacture of acetaldehyde (dehydrogenation of ethanol), acetylene (partial oxidation of methane), butadiene (dehydrogenation of n-butane), butadiene (oxidative-dehydrogenation of butylene**)or styrene by a point source subject to the provisions of this subpart. | | | | | | |
| COD | | | 1.32 lb/1000 lb | 0.95 lb/1000 lb | | |
| BOD5 | 0.95 lb/1000 lb | 0.42 lb/1000 lb | .32 lb/1000 lb | .18 lb/1000 lb | 0.76 lb/1000 lb | 0.34 lb/1000 lb |
| TSS | 1.42 lb/1000 lb | .64 lb/1000 lb | .48 lb/1000 lb | .29 lb/1000 lb | .72 lb/1000 lb | **.32 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

**Corrected per 39 FR 20597, June 12, 1974.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 414 - ORGANIC CHEMICALS (Continued) | | | FINAL REGULATIONS, PUBLISHED 4/25/74, EFFECTIVE 5/13/74 | | | |
| Subpart C - Aqueous Liquid Phase Reaction Systems Subcategory | | | | | | |
| (a) The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this paragraph, which may be discharged from the manufacture of acetic acid, acrylic acid, coal tar (distillation), ethylene glycol, terephthalic acid (oxidation of p-xylene), or polymer grade terephthalic acid (purification of terephthalic acid) by a point source subject to the provisions of this subpart. | | | | | | |
| COD | | | 0.52 lb/1000 lb | 0.37 lb/1000 lb | | |
| BOD5 | 0.28 lb/1000 lb | 0.12 lb/1000 lb | .093 lb/1000 lb | .053 lb/1000 lb | 0.23 lb/1000 lb | 0.10 lb/1000 lb |
| TSS | .42 lb/1000 lb | .19 lb/1000 lb | .14 lb/1000 lb | .085 lb/1000 lb | .21 lb/1000 lb | **.094 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (b) The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this paragraph, which may be discharged from the manufacture of acetaldehyde (oxidation of ethylene with oxygen), caprolactam, coal tar (pitch forming), oxo chemicals, or phenol and acetone (cumene process) by a point source subject to the provisions of this subpart. | | | | | | |
| COD | | | 1.75 lb/1000 lb | 0.98 lb/1000 lb | | |
| BOD5 | 0.55 lb/1000 lb | 0.25 lb/1000 lb | .12 lb/1000 lb | .068 lb/1000 lb | 0.45 lb/1000 lb | 0.20 lb/1000 lb |
| TSS | .56 lb/1000 lb | .25 lb/1000 lb | .19 lb/1000 lb | .11 lb/1000 lb | .28 lb/1000 lb | .12 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (c) The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this paragraph which may be discharged from the manufacture of acetaldehyde (oxidation of ethylene with air), aniline, bisphenol A, or dimethyl terephthalate by a point source subject to the provisions of this subpart. | | | | | | |
| COD | | | 6.07 lb/1000 lb | 4.37 lb/1000 lb | | |
| BOD5 | 1.15 lb/1000 lb | 0.51 lb/1000 lb | .067 lb/1000 lb | .043 lb/1000 lb | 0.94 lb/1000 lb | 0.42 lb/1000 lb |
| TSS | .15 lb/1000 lb | .068 lb/1000 lb | .05 lb/1000 lb | .03 lb/1000 lb | .076 lb/1000 lb | .034 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

**Corrected per 39 FR 20597, June 12, 1974

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 414 - ORGANIC CHEMICALS (Continued) | FINAL REGULATIONS, PUBLISHED 4/25/74, EFFECTIVE 5/13/74 | | | | | |
| Subpart C - Aqueous Liquid Phase Reaction Systems Subcategory (Continued) | | | | | | |
| (d) The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this paragraph which may be discharged from the manufacture of acrylates, p-cresol, methyl methacrylate, terephthalic acid (nitric acid process) or tetraethyl lead by a point source subject to the provisions of this subpart. | | | | | | |
| COD | | | 39.25 lb/1000 lb | 28.26 lb/1000 lb | | |
| BOD5 | 3.08 lb/1000 lb | 1.37 lb/1000 lb | .62 lb/1000 lb | .35 lb/1000 lb | 2.56 lb/1000 lb | 1.14 lb/1000 lb |
| TSS | 2.80 lb/1000 lb | 1.25 lb/1000 lb | .94 lb/1000 lb | .57 lb/1000 lb | 1.40 lb/1000 lb | .63 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (e) The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this paragraph, which may be discharged from the manufacture of phenol and acetone, bisphenol A, or p-cresol by a point source subject to the provision of this subpart. | | | | | | |
| Phenols | 0.045 lb/1000 lb | 0.020 lb/1000 lb | 0.003 lb/1000 lb | 0.017 lb/1000 lb | 0.045 lb/1000 lb | 0.02 lb/1000 lb |

**Corrected per 39 FR 20597, June 12, 1974

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 415 - INORGANIC CHEMICALS | FINAL REGULATIONS, PUBLISHED 3/12/74, EFFECTIVE 5/13/74 | | | | | |
| Subpart A - Aluminum Chloride Production Subcategory | | | | | | |
| | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| Subpart B - Aluminum Sulfate Production Subcategory | | | | | | |
| | (a) Subject to the provisions of paragraphs (b), (c), and (d) of this section, there shall be no discharge of process waste water pollutants to navigable waters. | | (a) Subject to the provisions of paragraph (b) of this section there shall be no discharge of process waste water pollutants into navigable waters | | (a) Subject to the provisions of paragraph (b) of this section there shall be no discharge of process waste water pollutants into navigable waters. | |
| | (b) A process waste water impoundment which is designed, constructed and operated so as to contain the precipitation from the 10 year, 24 hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the area in which such impoundment is located may discharge that volume of process waste water which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 10 year, 24 hour rainfall event when such event occurs. | | (b) A process waste water impoundment which is designed, constructed, and operated so as to contain the precipitation from the 25 year, 24 hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the area in which such impoundment is located may discharge that volume of process waste water which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 25 year, 24 hour rainfall event, when such event occurs. | | (b) A process waste water impoundment which is designed, constructed, and operated so as to contain the precipitation from the 25 year, 24 hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the area in which such impoundment is located may discharge that volume of process waste water which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 25 year, 24 hour rainfall event, when such event occurs. | |
| | (c) During any calendar month there may be discharged from a process waste water impoundment either a volume of process waste water equal to the difference between the precipitation for that month that falls within the impoundment and the evaporation for that month, or, if greater, a volume of process | | | | | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
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| PART 415 - INORGANIC CHEMICALS (Continued) | | FINAL REGULATIONS, PUBLISHED 3/12/74, EFFECTIVE 5/13/74 | | | | |
| | waste water equal to the difference between the mean precipitation for that month that falls within the impoundment and the mean evaporation for that month as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the area in which such impoundment is located (or as otherwise determined if no monthly data have been established by the National Climatic Center). | | | | | |
| | (d) Any process waste water discharged pursuant to paragraph (c) of this section shall comply with each of the following requirements: | | | | | |
| TSS | 50 ppm | 25 ppm | | | | |
| pH | 6.0 - 9.0 | | | | | |
| Subpart C - Calcium Carbide Production Subcategory | | | | | | |
| | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| Subpart D - Calcium Chloride Production Subcategory | | | | | | |
| TSS | 0.016 lb/1000 lb of prod. | 0.0082 lb/1000 lb of prod. | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| pH | 6.0 - 9.0 | | | | | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 415 - INORGANIC CHEMICALS (Continued) | | FINAL REGULATIONS, PUBLISHED 3/12/74, EFFECTIVE 5/13/74 | | | | |
| Subpart E - Calcium Oxide and Calcium Hydroxide Production Subcategory | | | | | | |
| | (a) Subject to the provisions of paragraphs (b), (c), and (d) of this section, there shall be no discharge of process waste water pollutants into navigable waters.<br><br>(b) A process waste water impoundment which is designed, constructed and operated so as to contain the precipitation from the 10 year, 24 hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the area in which such impoundment is located may discharge that volume of process waste water which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 10 year, 24 hour rainfall event, when such event occurs.<br><br>(c) During any calendar month there may be discharged from a process waste water impoundment either a volume of process waste water equal to the difference between the precipitation for that month that falls within the impoundment and the evaporation for that month, or, if greater, a volume of process waste water equal to the difference between the mean precipitation for that month that falls within the impoundment and the mean evaporation for that month as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the area in which such impoundment is located (or as other- | | (a) Subject to the provisions of paragraph (b) of this section there shall be no discharge of process waste water pollutants into navigable waters.<br><br>(b) A process waste water impoundment which is designed, constructed, and operated so as to contain the precipitation from the 25 year, 24 hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the area in which such impoundment is located may discharge that volume of process waste water which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 25 year, 24 hour rainfall event, when such event occurs. | | (a) Subject to the provisions of paragraph (b) of this section there shall be no discharge of process waste water pollutants into navigable waters.<br><br>(b) A process waste water impoundment which is designed, constructed, and operated so as to contain the precipitation from the 25 year, 24 hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the area in which such impoundment is located may discharge that volume of process waste water which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 25 year, 24 hour rainfall event, when such event occurs. | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
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| | wise determined if no monthly data have been established by the National Climatic Center). | | | | | |
| | (d) Any process waste water discharged pursuant to paragraph (c) of this section shall comply with each of the following requirements: | | | | | |
| TSS | 50 ppm | 25 ppm | | | | |
| pH | 6.0 - 9.0 | | | | | |
| Subpart F - Chlorine and Sodium or Potassium Hydroxide Production Subcategory | | | | | | |
| (a) Chlorine and Sodium or Potassium Hydroxide Manufacture by the Mercury Cell Process: | | | | | | |
| TSS | 0.64 lb/1000 lb of product | 0.32 lb/1000 lb of product | (1) Subject to the provisions of paragraph (a)(2) of this section there shall be no discharge of process waste water pollutants into navigable waters. | | 0.64 lb/1000 lb of product | 0.32 lb/1000 lb of product |
| Mercury | .00028 lb/1000 lb of product | .00014 lb/1000 lb of product | | | .00014 lb/1000 lb of product | .00007 lb/1000 lb of product |
| pH | 6.0 - 9.0 | | | | 6.0 - 9.0 | |
| | | | (2) A process waste water impoundment which is designed, constructed, and operated so as to contain the precipitation from the 25 year, 24 hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the area in which such impoundment is located may discharge that volume of process waste water which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 25 year, 24 hour rainfall event, when such event occurs. | | | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
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| PART 415 - INORGANIC CHEMICALS (Continued) | | FINAL REGULATIONS, PUBLISHED 3/12/74, EFFECTIVE 5/13/74 | | | | |
| (b) Chlorine and Sodium or Potassium Hydroxide Manufacture by the Diaphragm Cell Process: | | | | | | |
| TSS | 0.64 lb/1000 lb of product | 0.32 lb/1000 lb of product | There shall be no discharge of process waste water pollutants to navigable waters. | | 0.64 lb/1000 lb of product | 0.32 lb/1000 lb of product |
| Lead | .005 lb/1000 lb of product | .0025 lb/1000 lb of product | | | .00008 lb/1000 lb of product | .00004 lb/1000 lb of product |
| pH | 6.0 - 9.0 | | | | 6.0 - 9.0 | |
| Subpart G - Hydrochloric Acid Production Subcategory | | | | | | |
| | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| Subpart H - Hydrofluoric Acid Production Subcategory | | | | | | |
| | (a) Subject to the provisions of paragraphs (b), (c), and (d) of this section, there shall be no discharge of process waste water pollutants into navigable waters. | | (a) Subject to the provisions of paragraph (b) of this section there shall be no discharge of process waste water pollutants into navigable waters. | | (a) Subject to the provisions of paragraph (b) of this section there shall be no discharge of process waste water pollutants into navigable waters. | |
| | (b) A process waste water impoundment which is designed, constructed and operated so as to contain the precipitation from the 10 year, 24 hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the area in which such impoundment is located may discharge that volume of process waste water which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 10 year, 24 hour rainfall event, when such event occurs. | | (b) A process waste water impoundment which is designed, constructed, and operated so as to contain the precipitation from the 25 year, 24 hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the area in which such impoundment is located may discharge that volume of process waste water which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 25 year, 24 hour rainfall event, when such event occurs. | | (b) A process waste water impoundment which is designed, constructed, and operated so as to contain the precipitation from the 25 year, 24 hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the area in which such impoundment is located may discharge that volume of process waste water which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 25 year, 24 hour rainfall event, when such event occurs. | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
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| PART 415 - INORGANIC CHEMICALS (Continued) | | FINAL REGULATIONS, PUBLISHED 3/12/74, EFFECTIVE 5/13/74 | | | | |
| | (c) During any calendar month there may be discharged from a process waste water impoundment either a volume of process waste water equal to the difference between the precipitation for that month that falls within the impoundment and the evaporation for that month, or, if greater, a volume of process waste water equal to the difference between the mean precipitation for that month that falls within the impoundment and the mean evaporation for that month as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the area in which such impoundment is located (or as otherwise determined if no monthly data have been established by the National Climatic Center). | | | | | |
| | (d) Any process waste water discharged pursuant to paragraph (c) of this section shall comply with each of the following requirements: | | | | | |
| Fluoride | 30 ppm | 15 ppm | | | | |
| TSS | 50 ppm | 25 ppm | | | | |
| pH | 6.0 - 9.0 | | | | | |
| Subpart I - Hydrogen Peroxide Production Subcategory | | | | | | |
| (a) Hydrogen Peroxide Manufacture by the Oxidation of Alkyl Hydroanthraquinones | | | | | | |
| TSS | 0.8 lb/1000 lb of product | 0.4 lb/1000 lb of product | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| TOC | .44 lb/1000 lb of product | .22 lb/1000 lb of product | | | | |
| pH | 6.0 - 9.0 | | | | | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
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| PART 415 - INORGANIC CHEMICALS (Continued) | | FINAL REGULATIONS, PUBLISHED 3/12/74, EFFECTIVE 5/13/74 | | | | |
| (b) Hydrogen Peroxide Manufacture by the Electrolytic Process | | | | | | |
| TSS | 0.005 lb/1000 lb of product | 0.0025 lb/1000 lb of product | (1) Subject to the provisions of paragraph (b)(2) of this section there shall be no discharge of process waste water pollutants into navigable waters. | | (1) Subject to the provisions of paragraph (b)(2) of this section there shall be no discharge of process waste water pollutants into navigable waters. | |
| Cyanide A | .0004 lb/1000 lb of product | .0002 lb/1000 lb of product | | | | |
| pH | 6.0 - 9.0 | | | | | |
| | | | (2) A process waste water impoundment which is designed, constructed, and operated so as to contain the precipitation from the 25 year, 24 hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the area in which such impoundment is located may discharge that volume of process waste water which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 25 year, 24 hour rainfall event, when such event occurs. | | (2) A process waste water impoundment which is designed, constructed, and operated so as to contain the precipitation from the 25 year, 24 hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the area in which such impoundment is located may discharge that volume of process waste water which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 25 year, 24 hour rainfall event, when such event occurs. | |
| Subpart J - Nitric Acid Production Subcategory | | | | | | |
| | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| Subpart K - Potassium Metal Production Subcategory | | | | | | |
| | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| Subpart L - Potassium Dichromate Production Subcategory | | | | | | |
| | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
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| PART 415 - INORGANIC CHEMICALS (Continued) | | FINAL REGULATIONS, PUBLISHED 3/12/74, EFFECTIVE 5/13/74 | | | | |
| Subpart M - Potassium Sulfate Production Subcategory | | | | | | |
| | (a) Subject to the provisions of paragraphs (b), (c), and (d) of this section, there shall be no discharge of process waste water pollutants into navigable waters. | | (a) Subject to the provisions of paragraph (b) of this section there shall be no discharge of process waste water pollutants into navigable waters. | | (a) Subject to the provisions of paragraph (b) of this section there shall be no discharge of process waste water pollutants into navigable waters. | |
| | (b) A process waste water impoundment which is designed, constructed and operated so as to contain the precipitation from the 10 year, 24 hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the area in which such impoundment is located may discharge that volume of process waste water which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 10 year, 24 hour rainfall event, when such event occurs. | | (b) A process waste water impoundment which is designed, constructed, and operated so as to contain the precipitation from the 25 year, 24 hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the area in which such impoundment is located may discharge that volume of process waste water which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 25 year, 24 hour rainfall event, when such event occurs. | | (b) A process waste water impoundment which is designed, constructed, and operated so as to contain the precipitation from the 25 year, 24 hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the area in which such impoundment is located may discharge that volume of process waste water which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 25 year, 24 hour rainfall event, when such event occurs. | |
| | (c) During any calendar month there may be discharged from a process waste water impoundment either a volume of process waste water equal to the difference between the precipitation for that month that falls within the impoundment and the evaporation for that month, or, if greater, a volume of process waste water equal to the difference between the mean precipitation for that month that falls within the impoundment and the mean evaporation for that month as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the area in which such impoundment is located (or as otherwise determined if no monthly data have been established by the National Climatic Center). | | | | | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
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| PART 415 - INORGANIC CHEMICALS (Continued) | | | FINAL REGULATIONS, PUBLISHED 3/12/74, EFFECTIVE 5/13/74 | | | |
| | (d) Any process waste water discharged pursuant to paragraph (c) of this section shall comply with each of the following requirements: | | | | | |
| TSS | 50 ppm | 25 ppm | | | | |
| pH | 6.0 - 9.0 | | | | | |
| Subpart N - Sodium Bicarbonate Production Subcategory | | | | | | |
| | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters | |
| Subpart O - Sodium Carbonate Production Subcategory | | | | | | |
| TSS | **0.34 lb/1000 lb of product | **0.17 lb/1000 lb of product | **0.20 lb/1000 lb of product | **0.10 lb/1000 lb of product | There shall be no discharge of process waste water pollutants to navigable waters | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | | |
| Subpart P - Sodium Chloride Production Subcategory | | | | | | |
| | (a) Manufacture by solar evaporative process: there shall be no discharge of process waste water pollutants to navigable waters, except that unused bitterns may be returned to the body of water from which the process brine solution was originally withdrawn, provided no additional pollutants are added to the bitterns during the production of sodium chloride. | | (a) Manufacture by solar evaporative process: there shall be no discharge of process waste water pollutants to navigable waters, except that unused bitterns may be returned to the body of water from which the process brine solution was originally withdrawn, provided no additional pollutants are added to the bitterns during the production of sodium chloride. | | (a) Manufacture by solar evaporative process: there shall be no discharge of process waste water pollutants to navigable waters, except that unused bitterns may be returned to the body of water from which the process brine solution was originally withdrawn, provided no additional pollutants are added to the bitterns during the production of sodium chloride. | |
| | (b) The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this paragraph, which may be discharged in process waste water from sodium chloride manufacture by the solution brinemining process: | | (b) The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this paragraph, which may be discharged in process waste water from sodium chloride manufacture by the solution brinemining process: there shall be no discharge of process waste water pollutants to navigable waters. | | (b) The following standards of performance establish the quantity or quality of pollutants or pollutant properties, controlled by this paragraph, which may be discharged in process waste water from sodium chloride manufacture by the solution brine-mining process: there shall be no discharge of process waste water pollutants to navigable waters. | |
| TSS | 0.34 lb/1000 lb of product | 0.17 lb/1000 lb of product | | | | |
| pH | 6.0 - 9.0 | | | | | |

**Corrected per 39 FR 20376, June 10, 1974.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
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| PART 415 - INORGANIC CHEMICALS (Continued) | | | FINAL REGULATIONS, PUBLISHED 3/12/74, EFFECTIVE 5/13/74 | | | |
| *Subpart Q - Sodium Dichromate and Sodium Sulfate Production Subcategory* | | | | | | |
| TSS | 0.44 lb/1000 lb of product | 0.22 lb/1000 lb of product | (a) Subject to the provisions of paragraph (b) of this section there shall be no discharge of process waste water pollutants into navigable waters. | | 0.30 lb/1000 lb of product | 0.15 lb/1000 lb of product |
| Cr(+6) | .009 lb/1000 lb of product | .0005 lb/1000 lb of product | | | 0.009 lb/1000 lb of product | 0.0005 lb/1000 lb of product |
| Cr(T) | .0088 lb/1000 lb of product | .0044 lb/1000 lb of product | | | 0.0088 lb/1000 lb of product | 0.0044 lb/1000 lb of product |
| pH | 6.0 - 9.0 | | (b) A process waste water impoundment which is designed, constructed, and operated so as to contain the precipitation from the 25 year, 24 hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the area in which such impoundment is located may discharge that volume of process waste water which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 25 year, 24 hour rainfall event, when such event occurs. | | 6.0 - 9.0 | |
| *Subpart R - Sodium Metal Production Subcategory* | | | | | | |
| TSS | 0.46 lb/1000 lb of product | 0.23 lb/1000 lb of product | (a) Subject to the provisions of paragraph (b) of this section there shall be no discharge of process waste water pollutants into navigable waters. | | (a) Subject to the provisions of paragraph (b) of this section there shall be no discharge of process waste water pollutants into navigable waters. | |
| pH | 6.0 - 9.0 | | (b) A process waste water impoundment which is designed, constructed, and operated so as to contain the precipitation from the 25 year, 24 hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the area in which such impoundment is located may discharge that volume of process waste water which is equivalent to the volume of precipitation that falls within the | | (b) A process waste water impoundment which is designed, constructed, and operated so as to contain the precipitation from the 25 year, 24 hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the area in which such impoundment is located may discharge that volume of process waste water which is equivalent to the volume | |

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| PART 415 - INORGANIC CHEMICALS (Continued) | | FINAL REGULATIONS, PUBLISHED 3/12/74, EFFECTIVE 5/13/74 | | | | |
| | | | impoundment in excess of that attributable to the 25 year, 24 hour rainfall event, when such event occurs. | | of precipitation that falls within the impoundment in excess of that attributable to the 25 year, 24 hour rainfall event, when such event occurs. | |
| Subpart S - Sodium Silicate Production Subcategory | | | | | | |
| TSS | 0.01 lb/1000 lb of product | 0.005 lb/1000 lb of product | (a) Subject to the provisions of paragraph (b) of this section there shall be no discharge of process waste water pollutants into navigable waters. | | (a) Subject to the provisions of paragraph (b) of this section there shall be no discharge of process waste water pollutants into navigable waters. | |
| pH | 6.0 - 9.0 | | (b) A process waste water impoundment which is designed, constructed, and operated so as to contain the precipitation from the 25 year, 24 hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the area in which such impoundment is located may discharge that volume of process waste water which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 25 year, 24 hour rainfall event, when such event occurs. | | (b) A process waste water impoundment which is designed, constructed, and operated so as to contain the precipitation from the 25 year, 24 hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the area in which such impoundment is located may discharge that volume of process waste water which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 25 year, 24 hour rainfall event, when such event occurs. | |
| Subpart T - Sodium Sulfite Production Subcategory | | | | | | |
| TSS | 0.032 lb/1000 lb of product | 0.016 lb/1000 lb of product | (a) Subject to the provisions of paragraph (b) of this section there shall be no discharge of process waste water pollutants into navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters | |
| COD | 3.4 lb/1000 lb of product | 1.7 lb/1000 lb of product | | | | |
| pH | 6.0 - 9.0 | | (b) A process waste water impoundment which is designed, constructed, and operated so as to contain the precipitation from the 25 year, 24 hour rainfall event as established by the National Climatic Center, National | | | |

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| PART 415 - INORGANIC CHEMICALS (Continued) | | FINAL REGULATIONS, PUBLISHED 3/12/74, EFFECTIVE 5/13/74 | | | | |
| | | | Oceanic and Atmospheric Administration for the area in which such impoundment is located may discharge that volume of process waste water which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 25 year, 24 hour rainfall event, when such event occurs. | | | |
| Subpart U - Sulfuric Acid Production Subcategory | | | | | | |
| | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| Subpart V - Titanium Dioxide Production Subcategory | | | | | | |
| (a) Titanium Dioxide Manufacture by the Chloride Process: | | | | | | |
| TSS | 4.6 lb/1000 lb of product | 2.3 lb/1000 lb of product | 2.6 lb/1000 lb of product | 1.3 lb/1000 lb of product | 2.6 lb/1000 lb of product | 1.3 lb/1000 lb of product |
| Iron | .72 lb/1000 lb of product | .36 lb/1000 lb of product | .36 lb/1000 lb of product | .18 lb/1000 lb of product | .36 lb/1000 lb of product | .18 lb/1000 lb of product |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (b) Titanium Dioxide Manufactured by the Sulfate Process: | | | | | | |
| TSS | 21.0 lb/1000 lb of product | 10.5 lb/1000 lb of product | 10.6 lb/1000 lb of product | 5.3 lb/1000 lb of product | 10.6 lb/1000 lb of product | 5.3 lb/1000 lb of product |
| Iron | 1.7 lb/1000 lb of product | .84 lb/1000 lb of product | .84 lb/1000 lb of product | .42 lb/1000 lb of product | .84 lb/1000 lb of product | .42 lb/1000 lb of product |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 416 - PLASTICS AND SYNTHETICS | FINAL REGULATIONS, PUBLISHED 4/5/74, EFFECTIVE 6/4/74 (All references to lb/1000 lb are to 1000 lb of product) | | | | | |
| Subpart A - Polyvinyl Chloride Subcategory | | | | | | |
| (a) Limitations for discharge from the manufacture of polyvinyl chloride by the suspension polymerization process: | | | | | | |
| BOD5 | 0.70 lb/1000 lb | 0.36 lb/1000 lb | 0.41 lb/1000 lb | 0.28 lb/1000 lb | 0.37 lb/1000 lb | 0.19 lb/1000 lb |
| COD | 7.0 lb/1000 lb | 3.6 lb/1000 lb | 1.92 lb/1000 lb | 1.28 lb/1000 lb | 1.70 lb/1000 lb | .89 lb/1000 lb |
| TSS | 1.8 lb/1000 lb | .99 lb/1000 lb | .23 lb/1000 lb | .19 lb/1000 lb | .19 lb/1000 lb | .13 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (b) Limitations for discharge from the manufacture of polyvinyl chloride by the emulsion polymerization process: | | | | | | |
| BOD5 | 0.26 lb/1000 lb | 0.13 lb/1000 lb | 0.20 lb/1000 lb | 0.13 lb/1000 lb | 0.26 lb/1000 lb | 0.13 lb/1000 lb |
| COD | 2.6 lb/1000 lb | 1.3 lb/1000 lb | .92 lb/1000 lb | .61 lb/1000 lb | 1.20 lb/1000 lb | .61 lb/1000 lb |
| TSS | .65 lb/1000 lb | .36 lb/1000 lb | .11 lb/1000 lb | .092 lb/1000 lb | .14 lb/1000 lb | .092 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (c) Limitations for discharge from the manufacture of polyvinyl chloride by the bulk polymerization process: | | | | | | |
| BOD5 | 0.12 lb/1000 lb | 0.06 lb/1000 lb | 0.09 lb/1000 lb | 0.06 lb/1000 lb | 0.12 lb/1000 lb | 0.06 lb/1000 lb |
| COD | 1.2 lb/1000 lb | .60 lb/1000 lb | .42 lb/1000 lb | .28 lb/1000 lb | .54 lb/1000 lb | .28 lb/1000 lb |
| TSS | .29 lb/1000 lb | .16 lb/1000 lb | .05 lb/1000 lb | .042 lb/1000 lb | .06 lb/1000 lb | .042 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 416 - PLASTICS AND SYNTHETICS (Continued) | | | FINAL REGULATIONS, PUBLISHED 4/5/74, EFFECTIVE 6/4/74 | | | |
| Subpart B - Polyvinyl Acetate Subcategory | | | | | | |
| BOD5 | 0.39 lb/1000 lb | 0.20 lb/1000 lb | 0.29 lb/1000 lb | 0.19 lb/1000 lb | 0.35 lb/1000 lb | 0.18 lb/1000 lb |
| COD | 3.9 lb/1000 lb | 2.0 lb/1000 lb | 1.33 lb/1000 lb | .89 lb/1000 lb | 1.6 lb/1000 lb | .84 lb/1000 lb |
| TSS | 1.0 lb/1000 lb | .55 lb/1000 lb | .16 lb/1000 lb | .14 lb/1000 lb | .19 lb/1000 lb | .13 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart C - Polystyrene Subcategory | | | | | | |
| (a) Limitations for discharge from the manufacture of polystyrene by the suspension polymerization process: | | | | | | |
| BOD5 | 0.43 lb/1000 lb | 0.22 lb/1000 lb | 0.33 lb/1000 lb | 0.22 lb/1000 lb | 0.43 lb/1000 lb | 0.22 lb/1000 lb |
| COD | 4.3 lb/1000 lb | 2.20 lb/1000 lb | 1.55 lb/1000 lb | 1.03 lb/1000 lb | 2.0 lb/1000 lb | 1.03 lb/1000 lb |
| Total Chromium | .0046 lb/1000 lb | .0023 lb/1000 lb | .0046 lb/1000 lb | .0023 lb/1000 lb | .0046 lb/1000 lb | .0023 lb/1000 lb |
| TSS | 1.1 lb/1000 lb | .61 lb/1000 lb | .18 lb/1000 lb | .16 lb/1000 lb | .24 lb/1000 lb | .16 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (b) Limitations for discharge from the manufacture of polystyrene by bulk polymerization process: | | | | | | |
| BOD5 | 0.08 lb/1000 lb | 0.04 lb/1000 lb | 0.06 lb/1000 lb | 0.04 lb/1000 lb | 0.08 lb/1000 lb | 0.04 lb/1000 lb |
| COD | .80 lb/1000 lb | .40 lb/1000 lb | .29 lb/1000 lb | .19 lb/1000 lb | .37 lb/1000 lb | .19 lb/1000 lb |
| TSS | .20 lb/1000 lb | .11 lb/1000 lb | .033 lb/1000 lb | .028 lb/1000 lb | .04 lb/1000 lb | .028 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 416 - PLASTICS AND SYNTHETICS (Continued) | | | FINAL REGULATIONS, PUBLISHED 4/5/74, EFFECTIVE 6/4/74 | | | |
| Subpart D - Polypropylene Subcategory | | | | | | |
| BOD5 | 0.81 lb/1000 lb | 0.42 lb/1000 lb | 0.48 lb/1000 lb | 0.32 lb/1000 lb | 0.43 lb/1000 lb | 0.22 lb/1000 lb |
| COD | 4.1 lb/1000 lb | 2.1 lb/1000 lb | 3.21 lb/1000 lb | 2.14 lb/1000 lb | 2.9 lb/1000 lb | 1.47 lb/1000 lb |
| TSS | 2.1 lb/1000 lb | 1.16 lb/1000 lb | .27 lb/1000 lb | .23 lb/1000 lb | .24 lb/1000 lb | .16 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart E - Polyethylene Subcategory | | | | | | |
| (a) Limitations for discharge from the manufacture of low density polyethylene: | | | | | | |
| BOD5 | 0.39 lb/1000 lb | 0.20 lb/1000 lb | 0.29 lb/1000 lb | 0.19 lb/1000 lb | 0.35 lb/1000 lb | 0.18 lb/1000 lb |
| COD | 3.9 lb/1000 lb | 2.0 lb/1000 lb | 2.48 lb/1000 lb | 1.65 lb/1000 lb | 3.5 lb/1000 lb | 1.80 lb/1000 lb |
| TSS | 1.0 lb/1000 lb | .55 lb/1000 lb | .16 lb/1000 lb | .14 lb/1000 lb | .19 lb/1000 lb | .13 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (b) Limitations for discharge from the manufacture of high density polyethylene by the solvent process: | | | | | | |
| BOD5 | 0.58 lb/1000 lb | 0.30 lb/1000 lb | 0.45 lb/1000 lb | 0.30 lb/1000 lb | 0.58 lb/1000 lb | 0.3 lb/1000 lb |
| COD | 5.8 lb/1000 lb | 3.0 lb/1000 lb | 2.40 lb/1000 lb | 1.60 lb/1000 lb | 3.1 lb/1000 lb | 1.6 lb/1000 lb |
| Total Chromium | .0062 lb/1000 lb | .0031 lb/1000 lb | .0062 lb/1000 lb | .0031 lb/1000 lb | .0062 lb/1000 lb | .0031 lb/1000 lb |
| TSS | 1.5 lb/1000 lb | .83 lb/1000 lb | .25 lb/1000 lb | .21 lb/1000 lb | .31 lb/1000 lb | .21 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 416 - PLASTICS AND SYNTHETICS (Continued) | | | FINAL REGULATIONS, PUBLISHED 4/5/74, EFFECTIVE 6/4/74 | | | |
| Subpart E - Polyethylene Subcategory (Continued) | | | | | | |
| (c) Limitations for discharge from the manufacture of high density polyethylene by the polyform process: | | | | | | |
| BOD5 | 0.10 lb/1000 lb | 0.052 lb/1000 lb | 0.078 lb/1000 lb | 0.052 lb/1000 lb | 0.10 lb/1000 lb | 0.054 lb/1000 lb |
| COD | 1.0 lb/1000 lb | .52 lb/1000 lb | .42 lb/1000 lb | .28 lb/1000 lb | .54 lb/1000 lb | .28 lb/1000 lb |
| TSS | .25 lb/1000 lb | .14 lb/1000 lb | **.043 lb/1000 lb | **.037 lb/1000 lb | .05 lb/1000 lb | .036 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart F - Cellophane Subcategory | | | | | | |
| BOD5 | 17.8 lb/1000 lb | 8.7 lb/1000 lb | **7.9 lb/1000 lb | **5.1 lb/1000 lb | **7.41 lb/1000 lb | **3.6 lb/1000 lb |
| COD | 178.0 lb/1000 lb | 87.0 lb/1000 lb | **68.3 lb/1000 lb | **43.9 lb/1000 lb | **98 lb/1000 lb | **48 lb/1000 lb |
| TSS | 29.1 lb/1000 lb | 16.0 lb/1000 lb | 3.75 lb/1000 lb | 3.19 lb/1000 lb | 3.3 lb/1000 lb | 2.27 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart G - Rayon Subcategory | | | | | | |
| BOD5 | 10.0 lb/1000 lb | 4.8 lb/1000 lb | **4.4 lb/1000 lb | **2.8 lb/1000 lb | **4.17lb/1000 lb | **2.0 lb/1000 lb |
| COD | 150.0 lb/1000 lb | 72.0 lb/1000 lb | **37.9 lb/1000 lb | **24.4 lb/1000 lb | **97 lb/1000 lb | **47.0 lb/1000 lb |
| Zinc | .91 lb/1000 lb | .534 lb/1000 lb | 0.210 lb/1000 lb | 0.105 lb/1000 lb | 0.15 lb/1000 lb | 0.075 lb/1000 lb |
| TSS | 16.0 lb/1000 lb | 8.8 lb/1000 lb | 2.08 lb/1000 lb | 1.77 lb/1000 lb | 1.9 lb/1000 lb | 1.28 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

**Corrected per 39 FR 24893, July 8, 1974.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 416 - PLASTICS AND SYNTHETICS (Continued) | | | FINAL REGULATIONS, PUBLISHED 4/5/74, EFFECTIVE 6/4/74 | | | |
| Subpart H - Acrylonitrile-Butadiene-Styrene (ABS) and Styrene-Acrylonitrile (SAN) Resin Copolymers | | | | | | |
| BOD5 | 1.3 lb/1000 lb | 0.63 lb/1000 lb | **.70 lb/1000 lb | **.45 lb/1000 lb | **.88 lb/1000 lb | **.43 lb/1000 lb |
| COD | 13.0 lb/1000 lb | 6.3 lb/1000 lb | **5.1 lb/1000 lb | **3.3 lb/1000 lb | **6.5 lb/1000 lb | **3.1 lb/1000 lb |
| TSS | 2.1 lb/1000 lb | 1.16 lb/1000 lb | 0.33 lb/1000 lb | 0.28 lb/1000 lb | 0.40 lb/1000 lb | 0.27 lb/1000 lb |
| Total Chromium | .0088 lb/1000 lb | .0044 lb/1000 lb | 0.0084 lb/1000 lb | 0.0042 lb/1000 lb | 0.0080 lb/1000 lb | 0.0040 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart I - Polyester Subcategory | | | | | | |
| (a) Limitations for discharge from the manufacture of polyester resin by batch processing: | | | | | | |
| BOD5 | 1.4 lb/1000 lb | 0.78 lb/1000 lb | **.59 lb/1000 lb | **.44 lb/1000 lb | **.79 lb/1000 lb | **.44 lb/1000 lb |
| COD | 21.5 lb/1000 lb | 11.7 lb/1000 lb | **3.1 lb/1000 lb | **2.3 lb/1000 lb | **7.3 lb/1000 lb | **4.0 lb/1000 lb |
| TSS | .95 lb/1000 lb | .52 lb/1000 lb | 0.16 lb/1000 lb | 0.13 lb/1000 lb | 0.19 lb/1000 lb | 0.13 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (b) Limitations for discharge from the manufacture of polyester fiber by batch processing: | | | | | | |
| BOD5 | 1.4 lb/1000 lb | 0.78 lb/1000 lb | **.59 lb/1000 lb | **.44 lb/1000 lb | **.79 lb/1000 lb | **.44 lb/1000 lb |
| COD | 21.5 lb/1000 lb | 11.7 lb/1000 lb | **3.1 lb/1000 lb | **2.3 lb/1000 lb | **7.3 lb/1000 lb | **4.0 lb/1000 lb |
| TSS | .95 lb/1000 lb | .52 lb/1000 lb | 0.16 lb/1000 lb | 0.13 lb/1000 lb | 0.19 lb/1000 lb | 0.13 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

**Corrected per 39 FR 24893, July 8, 1974.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 416 - PLASTICS AND SYNTHETICS (Continued) | | | FINAL REGULATIONS, PUBLISHED 4/5/74, EFFECTIVE 6/4/74 | | | |
| Subpart I - Polyester Subcategory (Continued) | | | | | | |
| (c) Limitations for discharge from the manufacture of polyester resin and fiber by continuous processing: | | | | | | |
| BOD5 | 1.4 lb/1000 lb | 0.78 lb/1000 lb | **.47 lb/1000 lb | **.34 lb/1000 lb | **.46 lb/1000 lb | **.25 lb/1000 lb |
| COD | 21.5 lb/1000 lb | 11.7 lb/1000 lb | **2.4 lb/1000 lb | **1.8 lb/1000 lb | **4.2 lb/1000 lb | **2.32 lb/1000 lb |
| TSS | .95 lb/1000 lb | .52 lb/1000 lb | **0.13 lb/1000 lb | **0.11 lb/1000 lb | 0.12 lb/1000 lb | 0.078 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (d) Limitations for discharge from the manufacture of polyester resin and fiber by batch processing: | | | | | | |
| BOD5 | 2.8 lb/1000 lb | 1.56 lb/1000 lb | **1.2 lb/1000 lb | **.87 lb/1000 lb | **1.58 lb/1000 lb | **.87 lb/1000 lb |
| COD | 43.0 lb/1000 lb | 23.4 lb/1000 lb | **6.2 lb/1000 lb | **4.5 lb/1000 lb | **14.6 lb/1000 lb | **8.0 lb/1000 lb |
| TSS | 1.9 lb/1000 lb | 1.04 lb/1000 lb | **0.32 lb/1000 lb | **0.27 lb/1000 lb | **0.4 lb/1000 lb | **0.27 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart J - Nylon 66 Subcategory | | | | | | |
| (a) Limitations for discharge from the manufacture of nylon 66 resin: | | | | | | |
| BOD5 | 1.2 lb/1000 lb | 0.66 lb/1000 lb | **.5 lb/1000 lb | **.37 lb/1000 lb | **.67 lb/1000 lb | **.37 lb/1000 lb |
| COD | 6.0 lb/1000 lb | 3.3 lb/1000 lb | **2.6 lb/1000 lb | **1.9 lb/1000 lb | **4.8 lb/1000 lb | **2.6 lb/1000 lb |
| TSS | .80 lb/1000 lb | .44 lb/1000 lb | **0.13 lb/1000 lb | **0.11 lb/1000 lb | **0.16 lb/1000 lb | **0.11 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

**Corrected per 39 FR 24893, July 8, 1974.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 416 - PLASTICS AND SYNTHETICS (Continued) | | | FINAL REGULATIONS, PUBLISHED 4/5/74, EFFECTIVE 6/4/74 | | | |
| Subpart J - Nylon 66 Subcategory (Continued) | | | | | | |
| (b) Limitations for discharge from the manufacture of nylon 66 fiber: | | | | | | |
| BOD5 | 1.1 lb/1000 lb | 0.58 lb/1000 lb | **.44 lb/1000 lb | **.32 lb/1000 lb | **.58 lb/1000 lb | **.32 lb/1000 lb |
| COD | 5.3 lb/1000 lb | 3.0 lb/1000 lb | **2.3 lb/1000 lb | **1.7 lb/1000 lb | **4.2 lb/1000 lb | **2.3 lb/1000 lb |
| TSS | .70 lb/1000 lb | .39 lb/1000 lb | **0.12 lb/1000 lb | **0.10 lb/1000 lb | **0.15 lb/1000 lb | **0.10 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (c) Limitations for discharge from the manufacture of nylon 66 resin and fiber: | | | | | | |
| BOD5 | 2.3 lb/1000 lb | 1.24 lb/1000 lb | **.94 lb/1000 lb | **.69 lb/1000 lb | **1.25 lb/1000 lb | **.69 lb/1000 lb |
| COD | 11.3 lb/1000 lb | 6.2 lb/1000 lb | **4.9 lb/1000 lb | **3.6 lb/1000 lb | **9.0 lb/1000 lb | **4.95 lb/1000 lb |
| TSS | 1.5 lb/1000 lb | .83 lb/1000 lb | **0.25 lb/1000 lb | **0.21 lb/1000 lb | **0.31 lb/1000 lb | **0.21 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart K - Nylon 6 Subcategory | | | | | | |
| (a) Limitations for discharge from the manufacture of nylon 6 resin: | | | | | | |
| BOD5 | 6.8 lb/1000 lb | 3.71 lb/1000 lb | **2.45 lb/1000 lb | **1.8 lb/1000 lb | **2.75lb/1000 lb | **1.51 lb/1000 lb |
| COD | 68.0 lb/1000 lb | 37.1 lb/1000 lb | **12.7 lb/1000 lb | **9.3 lb/1000 lb | **28.6 lb/1000 lb | **15.7 lb/1000 lb |
| TSS | 4.5 lb/1000 lb | 2.48 lb/1000 lb | **0.65 lb/1000 lb | **0.55 lb/1000 lb | **0.69 lb/1000 lb | **0.47 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

**Corrected per 39 FR 24893, July 8, 1974.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 416 - PLASTICS AND SYNTHETICS (Continued) | | | FINAL REGULATIONS, PUBLISHED 4/5/74, EFFECTIVE 6/4/74 | | | |
| Subpart K - Nylon 6 Subcategory (Continued) | | | | | | |
| (b) Limitations for discharge from the manufacture of nylon 6 fiber: | | | | | | |
| BOD5 | 3.5 lb/1000 lb | 1.90 lb/1000 lb | 1.00 lb/1000 lb | 0.67 lb/1000 lb | **1.42 lb/1000 lb | **.78 lb/1000 lb |
| COD | 35.0 lb/1000 lb | 19.0 lb/1000 lb | 5.21 lb/1000 lb | 3.44 lb/1000 lb | **14.7 lb/1000 lb | **8.1 lb/1000 lb |
| TSS | 2.3 lb/1000 lb | 1.27 lb/1000 lb | .33 lb/1000 lb | .28 lb/1000 lb | **0.35 lb/1000 lb | **0.24 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (c) Limitations for discharge from the manufacture of nylon 6 resin and fiber: | | | | | | |
| BOD5 | 10.3 lb/1000 lb | 5.61 lb/1000 lb | 2.95 lb/1000 lb | 1.97 lb/1000 lb | **4.17 lb/1000 lb | **2.29 lb/1000 lb |
| COD | 103.0 lb/1000 lb | 56.1 lb/1000 lb | 15.3 lb/1000 lb | 10.2 lb/1000 lb | **43.4 lb/1000 lb | **23.9 lb/1000 lb |
| TSS | 6.8 lb/1000 lb | 3.75 lb/1000 lb | .98 lb/1000 lb | .84 lb/1000 lb | 1.1 lb/1000 lb | **0.71 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart L - Cellulose Acetate Subcategory | | | | | | |
| (a) Limitations for discharge from the manufacture of cellulose acetate resin: | | | | | | |
| BOD5 | 7.5 lb/1000 lb | 4.13 lb/1000 lb | 1.88 lb/1000 lb | 1.25 lb/1000 lb | **2.08 lb/1000 lb | **1.15 lb/1000 lb |
| COD | 75.0 lb/1000 lb | 41.3 lb/1000 lb | 9.75 lb/1000 lb | 6.5 lb/1000 lb | **20 lb/1000 lb | **11 lb/1000 lb |
| TSS | 5.0 lb/1000 lb | 2.75 lb/1000 lb | .63 lb/1000 lb | .53 lb/1000 lb | **0.51 lb/1000 lb | 0.35 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

**Corrected per 39 FR 24893, July 8, 1974.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 416 - PLASTICS AND SYNTHETICS (Continued) | | | FINAL REGULATIONS, PUBLISHED 4/5/74, EFFECTIVE 6/4/74 | | | |
| Subpart L - Cellulose Acetate Subcategory (Continued) | | | | | | |
| (b) Limitations for discharge from the manufacture of cellulose acetate fiber: | | | | | | |
| BOD5 | 7.5 lb/1000 lb | 4.13 lb/1000 lb | 1.88 lb/1000 lb | 1.25 lb/1000 lb | **2.08 lb/1000 lb | **1.15 lb/1000 lb |
| COD | 75.0 lb/1000 lb | 41.3 lb/1000 lb | 9.75 lb/1000 lb | 6.5 lb/1000 lb | **20 lb/1000 lb | **11 lb/1000 lb |
| TSS | 5.0 lb/1000 lb | 2.75 lb/1000 lb | .63 lb/1000 lb | .53 lb /1000 lb | 0.51 lb/1000 lb | 0.35 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (c) Limitations for discharge from the manufacture of cellulose acetate resin and fiber: | | | | | | |
| BOD5 | 15.0 lb/1000 lb | 8.26 lb/1000 lb | 3.75 lb/1000 lb | 2.50 lb/1000 lb | **4.17 lb/1000 lb | **2.29 lb/1000 lb |
| COD | 150.0 lb/1000 lb | 82.6 lb/1000 lb | 19.5 lb/1000 lb | 13.0 lb/1000 lb | **40 lb/1000 lb | **22 lb/1000 lb |
| TSS | 10.0 lb/1000 lb | 5.50 lb/1000 lb | 1.26 lb/1000 lb | 1.06 lb/1000 lb | 1.1 lb/1000 lb | 0.71 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart M - Acrylics Subcategory | | | | | | |
| BOD5 | 5.0 lb/1000 lb | 2.75 lb/1000 lb | 0.98 lb/1000 lb | 0.65 lb/1000 lb | **1.58 lb/1000 lb | **.87 lb/1000 lb |
| COD | 25.0 lb/1000 lb | 13.8 lb/1000 lb | 5.07 lb/1000 lb | 3.38 lb/1000 lb | **30.4 lb/1000 lb | **16.7 lb/1000 lb |
| TSS | 2.0 lb/1000 lb | 1.1 lb/1000 lb | .33 lb/1000 lb | .27 lb/1000 lb | **0.4 lb/1000 lb | **0.27 lb/1000 lb |
| Phenolic Compounds | .017 lb/1000 lb | .0083 lb/1000 lb | .0032 lb/1000 lb | .0016 lb/1000 lb | 0.0032 lb/1000 lb | 0.0016 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

**Corrected per 39 FR 24893, July 8, 1974.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 417 - SOAP AND DETERGENT | FINAL REGULATIONS, PUBLISHED 4/12/74, EFFECTIVE 6/11/74 | | | | | |
| (All references to lb/1000 lb are to 1000 lb of anhydrous product) | | | | | | |
| Subpart A - Soap Manufacturing by Batch Kettle Subcategory | | | | | | |
| BOD5 | 1.80 lb/1000 lb | 0.60 lb/1000 lb | 0.80 lb/1000 lb | 0.40 lb/1000 lb | 0.80 lb/1000 lb | 0.40 lb/1000 lb |
| COD | 4.50 lb/1000 lb | 1.50 lb/1000 lb | 2.10 lb/1000 lb | 1.05 lb/1000 lb | 2.10 lb/1000 lb | 1.05 lb/1000 lb |
| TSS | 1.20 lb/1000 lb | .40 lb/1000 lb | .80 lb/1000 lb | .40 lb/1000 lb | .40 lb/1000 lb | .40 lb/1000 lb |
| Oil & Grease | .30 lb/1000 lb | .10 lb/1000 lb | .10 lb/1000 lb | .05 lb/1000 lb | .10 lb/1000 lb | .05 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart B - Fatty Acid Manufacturing by Fat Splitting Subcategory | | | | | | |
| (a) Discharges from the splitting of fats to fatty acids by hydrolysis: | | | | | | |
| BOD5 | 3.60 lb/1000 lb | 1.20 lb/1000 lb | 0.50 lb/1000 lb | 0.25 lb/1000 lb | 0.50 lb/1000 | 0.25 lb/1000 lb |
| COD | 9.90 lb/1000 lb | 3.30 lb/1000 lb | 1.80 lb/1000 lb | .90 lb/1000 lb | 1.80 lb/1000 lb | .90 lb/1000 lb |
| TSS | 6.60 lb/1000 lb | 2.20 lb/1000 lb | .40 lb/1000 lb | .20 lb/1000 lb | .40 lb/1000 lb | .20 lb/1000 lb |
| Oil & Grease | .90 lb/1000 lb | .30 lb/1000 lb | .30 lb/1000 lb | .15 lb/1000 lb | .30 lb/1000 lb | .15 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (b) If fatty acids are hydrogenated, the following additional allowances shall apply: | | | | | | |
| BOD5 | 0.45 lb/1000 lb | 0.15 lb/1000 lb | 0.30 lb/1000 lb | 0.15 lb/1000 lb | 0.30 lb/1000 lb | 0.15 lb/1000 lb |
| COD | .75 lb/1000 lb | .25 lb/1000 lb | .50 lb/1000 lb | .25 lb/1000 lb | .50 lb/1000 lb | .25 lb/1000 lb |
| TSS | .30 lb/1000 lb | .10 lb/1000 lb | .20 lb/1000 lb | .10 lb/1000 lb | .20 lb/1000 lb | .10 lb/1000 lb |
| Oil & Grease | .30 lb/1000 lb | .10 lb/1000 lb | .20 lb/1000 lb | .10 lb/1000 lb | .20 lb/1000 lb | .10 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 417 - SOAP AND DETERGENT (Continued) | | FINAL REGULATIONS, PUBLISHED 4/12/74, EFFECTIVE 6/11/74 | | | | |
| Subpart C - Soap Manufacturing by Fatty Acid Neutralization Subcategory | | | | | | |
| BOD5 | 0.03 lb/1000 lb | **0.01 lb/1000 lb | 0.02 lb/1000 lb | 0.01 lb/1000 lb | 0.02 lb/1000 lb | 0.01 lb/1000 lb |
| COD | .15 lb/1000 lb | .05 lb/1000 lb | .10 lb/1000 lb | .05 lb/1000 lb | .10 lb/1000 lb | .05 lb/1000 lb |
| TSS | .06 lb/1000 lb | .02 lb/1000 lb | .04 lb/1000 lb | .02 lb/1000 lb | .04 lb/1000 lb | .02 lb/1000 lb |
| Oil & Grease | .03 lb/1000 lb | .01 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart D - Glycerine Concentration Subcategory | | | | | | |
| BOD5 | 4.50 lb/1000 lb | 1.50 lb/1000 lb | 0.80 lb/1000 lb | 0.40 lb/1000 lb | 0.80 lb/1000 lb | 0.40 lb/1000 lb |
| COD | 13.50 lb/1000 lb | 4.50 lb/1000 lb | 2.40 lb/1000 lb | 1.20 lb/1000 lb | 2.40 lb/1000 lb | 1.20 lb/1000 lb |
| TSS | .60 lb/1000 lb | .20 lb/1000 lb | .20 lb/1000 lb | .10 lb/1000 lb | .20 lb/1000 lb | .10 lb/1000 lb |
| Oil & Grease | .30 lb/1000 lb | .10 lb/1000 lb | .08 lb/1000 lb | .04 lb/1000 lb | .08 lb/1000 lb | .01 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart E - Glycerine Distillation Subcategory | | | | | | |
| BOD5 | 1.50 lb/1000 lb | 0.50 lb/1000 lb | 0.60 lb/1000 lb | 0.30 lb/1000 lb | 0.60 lb/1000 lb | 0.30 lb/1000 lb |
| COD | 4.50 lb/1000 lb | 1.50 lb/1000 lb | 1.80 lb/1000 lb | .90 lb/1000 lb | 1.80 lb/1000 lb | .90 lb/1000 lb |
| TSS | .60 lb/1000 lb | .20 lb/1000 lb | .08 lb/1000 lb | .04 lb/1000 lb | .08 lb/1000 lb | .04 lb/1000 lb |
| Oil & Grease | .30 lb/1000 lb | .10 lb/1000 lb | .04 lb/1000 lb | .02 lb/1000 lb | .04 lb/1000 lb | .02 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

**Corrected per 39 FR 17841, May 21, 1974.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 417 - SOAP AND DETERGENT (Continued) | | FINAL REGULATIONS, PUBLISHED 4/12/74, EFFECTIVE 6/11/74 | | | | |
| Subpart F - Manufacture of Soap Flakes and Powders Subcategory | | | | | | |
| BOD5 | 0.03 lb/1000 lb | 0.01 lb/1000 lb | 0.02 lb/1000 lb | 0.01 lb/1000 lb | 0.02 lb/1000 lb | 0.01 lb/1000 lb |
| COD | .15 lb/1000 lb | .05 lb/1000 lb | .10 lb/1000 lb | .05 lb/1000 lb | .10 lb/1000 lb | .05 lb/1000 lb |
| TSS | .03 lb/1000 lb | .01 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb |
| Oil & Grease | .03 lb/1000 lb | .01 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart G - Manufacture of Bar Soaps Subcategory | | | | | | |
| BOD5 | 1.02 lb/1000 lb | 0.34 lb/1000 lb | 0.40 lb/1000 lb | 0.20 lb/1000 lb | 0.40 lb/1000 lb | 0.20 lb/1000 lb |
| COD | 2.55 lb/1000 lb | .85 lb/1000 lb | 1.20 lb/1000 lb | .60 lb/1000 lb | 1.20 lb/1000 lb | .60 lb/1000 lb |
| TSS | 1.74 lb/1000 lb | .58 lb/1000 lb | .68 lb/1000 lb | .34 lb/1000 lb | .68 lb/1000 lb | .34 lb/1000 lb |
| Oil & Grease | .12 lb/1000 lb | .04 lb/1000 lb | .06 lb/1000 lb | .03 lb/1000 lb | .06 lb/1000 lb | .03 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart H - Manufacture of Liquid Soaps Subcategory | | | | | | |
| BOD5 | 0.03 lb/1000 lb | 0.01 lb/1000 lb | 0.02 lb/1000 lb | 0.01 lb/1000 lb | 0.02 lb/1000 lb | 0.01 lb/1000 lb |
| COD | .15 lb/1000 lb | .05 lb/1000 lb | .10 lb/1000 lb | .05 lb/1000 lb | .10 lb/1000 lb | .05 lb/1000 lb |
| TSS | .03 lb/1000 lb | .01 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb |
| Oil & Grease | .03 lb/1000 lb | .01 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 417 - SOAP AND DETERGENT (Continued) | | FINAL REGULATIONS, PUBLISHED 4/12/74, EFFECTIVE 6/11/74 | | | | |
| Subpart I - Oleum Sulfonation and Sulfation Subcategory | | | | | | |
| BOD5 | 0.09 lb/1000 lb | 0.02 lb/1000 lb | 0.07 lb/1000 lb | 0.02 lb/1000 lb | 0.03 lb/1000 lb | 0.01 lb/1000 lb |
| COD | .40 lb/1000 lb | .09 lb/1000 lb | .27 lb/1000 lb | .09 lb/1000 lb | .09 lb/1000 lb | .03 lb/1000 lb |
| TSS | .15 lb/1000 lb | .03 lb/1000 lb | .09 lb/1000 lb | .03 lb/1000 lb | .06 lb/1000 lb | .02 lb/1000 lb |
| Surfactants | .15 lb/1000 lb | .03 lb/1000 lb | .09 lb/1000 lb | .03 lb/1000 lb | .03 lb/1000 lb | .01 lb/1000 lb |
| Oil & Grease | .25 lb/1000 lb | .07 lb/1000 lb | .21 lb/1000 lb | .07 lb/1000 lb | .12 lb/1000 lb | .04 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart J - Air-SO3 Sulfation and Sulfonation Subcategory | | | | | | |
| BOD5 | 0.90 lb/1000 lb | 0.30 lb/1000 lb | 0.30 lb/1000 lb | 0.19 lb/1000 lb | 0.18 lb/1000 lb | 0.09 lb/1000 lb |
| COD | 4.05 lb/1000 lb | 1.35 lb/1000 lb | 1.10 lb/1000 lb | .55 lb/1000 lb | .80 lb/1000 lb | .40 lb/1000 lb |
| TSS | .09 lb/1000 lb | .03 lb/1000 lb | .04 lb/1000 lb | .02 lb/1000 lb | .04 lb/1000 lb | .02 lb/1000 lb |
| Surfactants | .90 lb/1000 lb | .30 lb/1000 lb | .36 lb/1000 lb | .18 lb/1000 lb | .18 lb/1000 lb | .09 lb/1000 lb |
| Oil & Grease | .15 lb/1000 lb | .05 lb/1000 lb | .08 lb/1000 lb | .04 lb/1000 lb | .04 lb/1000 lb | .02 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart K - SO3 Solvent and Vacuum Sulfonation Subcategory | | | | | | |
| BOD5 | 0.90 lb/1000 lb | 0.30 lb/1000 lb | 0.20 lb/1000 lb | 0.10 lb/1000 lb | 0.20 lb/1000 lb | 0.10 lb/1000 lb |
| COD | 3.05 lb/1000 lb | 1.35 lb/1000 lb | .90 lb/1000 lb | .45 lb/1000 lb | .90 lb/1000 lb | .45 lb/1000 lb |
| TSS | .09 lb/1000 lb | .03 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 417 - SOAP AND DETERGENT (Continued) FINAL REGULATIONS, PUBLISHED 4/12/74, EFFECTIVE 6/11/74 | | | | | | |
| Subpart K - S03 Solvent and Vacuum Sulfonation Subcategory (Continued) | | | | | | |
| Surfactants | .90 lb/1000 lb | .30 lb/1000 lb | .20 lb/1000 lb | .10 lb/1000 lb | 0.20 lb/1000 lb | 0.10 lb/1000 lb |
| Oil & Grease | .10 lb/1000 lb | .05 lb/1000 lb | .04 lb/1000 lb | .02 lb/1000 lb | .04 lb/1000 lb | .02 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart L - Sulfamic Acid Sulfation Subcategory | | | | | | |
| BOD5 | 0.90 lb/1000 lb | 0.30 lb/1000 lb | 0.20 lb/1000 lb | 0.10 lb/1000 lb | 0.20 lb/1000 lb | 0.10 lb/1000 lb |
| COD | 4.05 lb/1000 lb | 1.35 lb/1000 lb | .90 lb/1000 lb | .45 lb/1000 lb | .90 lb/1000 lb | .45 lb/1000 lb |
| TSS | .09 lb/1000 lb | .03 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb |
| Surfactants | .90 lb/1000 lb | .30 lb/1000 lb | .20 lb/1000 lb | .10 lb/1000 lb | .20 lb/1000 lb | .10 lb/1000 lb |
| Oil & Grease | .15 lb/1000 lb | .05 lb/1000 lb | .04 lb/1000 lb | .02 lb/1000 lb | .04 lb/1000 lb | .02 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart M - Chlorosulfonic Acid Sulfation Subcategory | | | | | | |
| BOD5 | 0.90 lb/1000 lb | 0.30 lb/1000 lb | 0.30 lb/1000 lb | 0.15 lb/1000 lb | 0.30 lb/1000 lb | 0.15 lb/1000 lb |
| COD | 4.05 lb/1000 lb | 1.35 lb/1000 lb | 1.50 lb/1000 lb | .75 lb/1000 lb | 1.50 lb/1000 lb | .75 lb/1000 lb |
| TSS | .09 lb/1000 lb | .03 lb/1000 lb | .04 lb/1000 lb | .02 lb/1000 lb | .04 lb/1000 lb | .02 lb/1000 lb |
| Surfactants | .90 lb/1000 lb | .30 lb/1000 lb | .30 lb/1000 lb | .15 lb/1000 lb | .30 lb/1000 lb | .15 lb/1000 lb |
| Oil & Grease | .15 lb/1000 lb | .05 lb/1000 lb | .06 lb/1000 lb | .03 lb/1000 lb | .06 lb/1000 lb | .03 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 417 - SOAP AND DETERGENT (Continued) FINAL REGULATIONS, PUBLISHED 4/12/74, EFFECTIVE 6/11/74 | | | | | | |
| Subpart N - Neutralization of Sulfuric Acid Esters and Sulfonic Acids Subcategory | | | | | | |
| BOD5 | 0.03 lb/1000 lb | 0.01 lb/1000 lb | 0.02 lb/1000 lb | 0.01 lb/1000 lb | 0.02 lb/1000 lb | 0.01 lb/1000 lb |
| COD | .15 lb/1000 lb | .05 lb/1000 lb | .10 lb/1000 lb | .05 lb/1000 lb | .08 lb/1000 lb | .04 lb/1000 lb |
| TSS | .09 lb/1000 lb | .03 lb/1000 lb | .06 lb/1000 lb | .03 lb/1000 lb | .06 lb/1000 lb | .03 lb/1000 lb |
| Surfactants | .06 lb/1000 lb | .02 lb/1000 lb | .04 lb/1000 lb | .02 lb/1000 lb | .04 lb/1000 lb | .02 lb/1000 lb |
| Oil & Grease | .03 lb/1000 lb | .01 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart O - Manufacture of Spray Dried Detergents Subcategory | | | | | | |
| (a) For normal operation of spray drying towers: | | | | | | |
| BOD5 | 0.03 lb/1000 lb | 0.01 lb/1000 lb | 0.02 lb/1000 lb | 0.01 lb/1000 lb | 0.02 lb/1000 lb | 0.01 lb/1000 lb |
| COD | .15 lb/1000 lb | .05 lb/1000 lb | .08 lb/1000 lb | .04 lb/1000 lb | .08 lb/1000 lb | .04 lb/1000 lb |
| TSS | .03 lb/1000 lb | .01 lb/1000 lb | .04 lb/1000 lb | .02 lb/1000 lb | .04 lb/1000 lb | .02 lb/1000 lb |
| Surfactants | .06 lb/1000 lb | .02 lb/1000 lb | .04 lb/1000 lb | .02 lb/1000 lb | .04 lb/1000 lb | .02 lb/1000 lb |
| Oil & Grease | .015 lb/1000 lb | .005 lb/1000 lb | .01 lb/1000 lb | .005 lb/1000 lb | .01 lb/1000 lb | .005 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|

PART 417 - SOAP AND DETERGENT (Continued) FINAL REGULATIONS, PUBLISHED 4/12/74, EFFECTIVE 6/11/74

Subpart O - Manufacture of Spray Dried Detergents Subcategory (Continued)

(b) For air quality restricted operation of a spray drying tower, but only when a high rate of wet scrubbing is in operation which produces more waste water than can be recycled to process, the following values pertain:

| | | | | | | |
|---|---|---|---|---|---|---|
| BOD5 | 0.24 lb/1000 lb | 0.08 lb/1000 lb | 0.12 lb/1000 lb | 0.06 lb/1000 lb | 0.12 lb/1000 lb | 0.06 lb/1000 lb |
| COD | 1.05 lb/1000 lb | .35 lb/1000 lb | .50 lb/1000 lb | .25 lb/1000 lb | .50 lb/1000 lb | .25 lb/1000 lb |
| TSS | .30 lb/1000 lb | .10 lb/1000 lb | .14 lb/1000 lb | .07 lb/1000 lb | .14 lb/1000 lb | .07 lb/1000 lb |
| Surfactants | .45 lb/1000 lb | .15 lb/1000 lb | .20 lb/1000 lb | .10 lb/1000 lb | .20 lb/1000 lb | .10 lb/1000 lb |
| Oil & Grease | .09 lb/1000 lb | .03 lb/1000 lb | .04 lb/1000 lb | .02 lb/1000 lb | .04 lb/1000 lb | .02 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

(c) For fast turnaround operation of a spray tower, the following values pertain: The maximum for any one day when the number of turnarounds exceeds six in any particular thirty consecutive day period shall be the sum of the appropriate value below and that from (a) or (b) of this section; and the average of daily values for thirty consecutive days shall be the value shown below multiplied by the number of turnarounds in excess of six and prorated to thirty days plus the appropriate value from (a) or (b) of this section.

| | | | |
|---|---|---|---|
| BOD5 | 0.02 lb/1000 lb | 0.02 lb/1000 lb | 0.02 lb/1000 lb |
| COD | .09 lb/1000 lb | .07 lb/1000 lb | .07 lb/1000 lb |
| TSS | .02 lb/1000 lb | .02 lb/1000 lb | .02 lb/1000 lb |
| Surfactants | .03 lb/1000 lb | .02 lb/1000 lb | .02 lb/1000 lb |
| Oil & Grease | .005 lb/1000 lb | .005 lb/1000 lb | .005 lb/1000 lb |
| pH | 6.0 - 9.0 | 6.0 - 9.0 | 6.0 - 9.0 |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 417 - SOAP AND DETERGENT (Continued) FINAL REGULATIONS, PUBLISHED 4/12/74, EFFECTIVE 6/11/74 | | | | | | |
| Subpart P - Manufacture of Liquid Detergents Subcategory | | | | | | |
| (a) For normal liquid detergent operations the following values pertain: | | | | | | |
| BOD5 | 0.60 lb/1000 lb | 0.20 lb/1000 lb | 0.10 lb/1000 lb | 0.05 lb/1000 lb | 0.10 lb/1000 lb | 0.05 lb/1000 lb |
| COD | **1.80 lb/1000 lb | .60 lb/1000 lb | .44 lb/1000 lb | .22 lb/1000 lb | .44 lb/1000 lb | .22 lb/1000 lb |
| TSS | .015 lb/1000 lb | .005 lb/1000 lb | .01 lb/1000 lb | .005 lb/1000 lb | .01 lb/1000 lb | .005 lb/1000 lb |
| Surfactants | .39 lb/1000 lb | .13 lb/1000 lb | .10 lb/1000 lb | .05 lb/1000 lb | .10 lb/1000 lb | .05 lb/1000 lb |
| Oil & Grease | .015 lb/1000 lb | .005 lb/1000 lb | .01 lb/1000 lb | .005 lb/1000 lb | .01 lb/1000 lb | .005 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (b) For fast turnaround operation of automated fill lines, the following values pertain: the maximum for any one day when the number of turnarounds exceeds eight in any thirty consecutive day period shall be the sum of the appropriate value below and that from (a) of this section; and the average of daily values for thirty consecutive days shall be the value shown below multiplied by the number of turnarounds in excess of eight and prorated to thirty days plus the appropriate value from (a) of this section. | | | | | | |
| BOD5 | 0.05 lb/1000 lb | | 0.02 lb/1000 lb | | 0.02 lb/1000 lb | |
| COD | .15 lb/1000 lb | | .07 lb/1000 lb | | .07 lb/1000 lb | |
| TSS | .002 lb/1000 lb | | .002 lb/1000 lb | | .002 lb/1000 lb | |
| Surfactants | .04 lb/1000 lb | | .02 lb/1000 lb | | .02 lb/1000 lb | |
| Oil & Grease | .002 lb/1000 lb | | .002 lb/1000 lb | | .002 lb/1000 lb | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

**Corrected per 39 FR 17841, May 21, 1974.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 417 - SOAP AND DETERGENT (Continued) | FINAL REGULATIONS, PUBLISHED 4/12/74, EFFECTIVE 6/11/74 | | | | | |
| Subpart Q - Manufacture of Detergents by Dry Blending Subcategory | | | | | | |
| BOD5 | 0.03 lb/1000 lb | 0.01 lb/1000 lb | 0.02 lb/1000 lb | 0.01 lb/1000 lb | 0.02 lb/1000 lb | 0.01 lb/1000 lb |
| COD | .21 lb/1000 lb | .07 lb/1000 lb | .14 lb/1000 lb | .07 lb/1000 lb | .14 lb/1000 lb | .07 lb/1000 lb |
| TSS | .03 lb/1000 lb | .01 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb |
| Surfactants | .03 lb/1000 lb | .01 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb |
| Oil & Grease | .015 lb/1000 lb | .005 lb/1000 lb | .01 lb/1000 lb | .005 lb/1000 lb | .01 lb/1000 lb | .005 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart R - Manufacture of Drum Dried Detergents Subcategory | | | | | | |
| BOD5 | 0.03 lb/1000 lb | 0.01 lb/1000 lb | 0.02 lb/1000 lb | 0.01 lb/1000 lb | 0.02 lb/1000 lb | 0.01 lb/1000 lb |
| COD | .15 lb/1000 lb | .05 lb/1000 lb | .10 lb/1000 lb | .05 lb/1000 lb | .10 lb/1000 lb | .05 lb/1000 lb |
| TSS | .03 lb/1000 lb | .01 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb |
| Surfactants | .03 lb/1000 lb | .01 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb |
| Oil & Grease | .03 lb/1000 lb | .01 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb | .02 lb/1000 lb | .01 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 417 - SOAP AND DETERGENT (Continued) | | | FINAL REGULATIONS, PUBLISHED 4/12/74, EFFECTIVE 6/11/74 | | | |
| Subpart S - Manufacture of Detergent Bars and Cakes Subcategory | | | | | | |
| BOD5 | 2.10 lb/1000 lb | 0.70 lb/1000 lb | 0.60 lb/1000 lb | 0.30 lb/1000 lb | 0.60 lb/1000 lb | 0.30 lb/1000 lb |
| COD | 9.90 lb/1000 lb | 3.30 lb/1000 lb | 2.70 lb/1000 lb | 1.35 lb/1000 lb | 2.70 lb/1000 lb | 1.35 lb/1000 lb |
| TSS | .60 lb/1000 lb | .30 lb/1000 lb | .20 lb/1000 lb | .10 lb/1000 lb | .20 lb/1000 lb | .10 lb/1000 lb |
| Surfactants | 1.50 lb/1000 lb | .50 lb/1000 lb | .40 lb/1000 lb | .20 lb/1000 lb | .40 lb/1000 lb | .20 lb/1000 lb |
| Oil & Grease | .06 lb/1000 lb | .02 lb/1000 lb | .04 lb/1000 lb | .02 lb/1000 lb | .04 lb/1000 lb | .02 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 418 - FERTILIZER MANUFACTURING | FINAL REGULATIONS, PUBLISHED 4/8/74, EFFECTIVE 6/7/74 (All references to lb/1000 lb are to 1000 lb of product) | | | | | |
| Subpart A - Phosphate Subcategory | | | | | | |
| | (a) Subject to the provisions of paragraphs (b), (c), and (d) of this section, there shall be no discharge of process waste water pollutants into navigable waters. | | (a) Subject to the provisions of paragraph (b) of this section there shall be no discharge of process waste water pollutants into navigable waters. | | (a) Subject to the provisions of paragraph (b) of this section, there shall be no discharge of process waste water pollutants into navigable waters. | |
| | (b) A process waste water impoundment which is designed, constructed and operated so as to contain the precipitation from the 10 year, 24 hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration, for the area in which such impoundment is located may discharge that volume of process waste water which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 10 year, 24 hour rainfall event, when such event occurs. | | (b) A process waste water impoundment which is designed, constructed, and operated so as to contain the precipitation from the 25 year, 24 hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration, for the area in which such impoundment is located may discharge that volume of process waste water which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 25 year, 24 hour rainfall event, when such event occurs. | | (b) A process waste water impoundment which is designed, constructed, and operated so as to contain the precipitation from the 25 year, 24 hour rainfall event as established by the National Climatic Center, National Oceanic Atmospheric Administration, for the area in which such impoundment is located may discharge that volume of process waste water which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 25 year, 24 hour rainfall event, when such event occurs. | |
| | (c) During any calendar month there may be discharged from a process waste water impoundment either a volume of process waste water equal to the difference between the precipitation for that month that falls within the impoundment and the evaporation within the impoundment for that month, or, if greater, a volume of process waste water equal to the difference between the mean precipitation for that month that falls within the impoundment and the mean evaporation for that month as established by the National Climatic Center, National Oceanic and Atmospheric Administration, for the area in which such impoundment is located (or as otherwise determined if no monthly data have been established by the National Climatic Center). | | | | | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 418 - FERTILIZER MANUFACTURING (Continued) | | | FINAL REGULATIONS, PUBLISHED 4/8/74, EFFECTIVE 6/7/74 | | | |
| Subpart A - Phosphate Subcategory (Continued) | | | | | | |
| (d) Any process waste water discharged pursuant to paragraph (c) of this section shall comply with each of the following requirements: | | | | | | |
| Total Phosphorus | 70 ppm | 35 ppm | | | | |
| Fluoride | 30 ppm | 15 ppm | | | | |
| TSS | 50 ppm | 25 ppm | | | | |
| pH | 8.0 - 9.5 | | | | | |
| Subpart B - Ammonia Subcategory | | | | | | |
| Ammonia | 0.125 lb/1000 lb | 0.0625 lb/1000 lb | 0.05 lb/1000 lb | 0.025 lb/1000 lb | 0.11 lb/1000 lb | 0.055 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart C - Urea Subcategory | | | | | | |
| (a) Limitations for maximum permissible discharge for urea manufacturing operations in which urea is not prilled: | | | | | | |
| Ammonia | 0.075 lb/1000 lb | 0.0375 lb/1000 lb | 0.03 lb/1000 lb | 0.015 lb/1000 lb | 0.065 lb/1000 lb | 0.0325 lb/1000 lb |
| Organic Nitrogen | **.44 lb/1000 lb | **0.175 lb/1000 lb | .05 lb/1000 lb | .025 lb/1000 lb | **.24 lb/1000 lb | **.12 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

**Corrected per 39 FR 24490, July 2, 1974.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 418 - FERTILIZER MANUFACTURING (Continued) | | | FINAL REGULATIONS, PUBLISHED 4/8/74, EFFECTIVE 6/7/74 | | | |
| Subpart C - Urea Subcategory (Continued) | | | | | | |
| (b) Limitations for maximum permissible discharge for urea manufacturing operations in which urea is prilled: | | | | | | |
| Ammonia | 0.1 lb/1000 lb | 0.05 lb/1000 lb | 0.03 lb/1000 lb | 0.015 lb/1000 lb | 0.065 lb/1000 lb | 0.0325 lb/1000 lb |
| Organic Nitrogen | **1.25 lb/1000 lb | **.5 lb/1000 lb | .075 lb/1000 lb | .0375 lb/1000 lb | **.7 lb/1000 lb | **.35 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart D - Ammonium Nitrate Subcategory | | | | | | |
| (a) Limitations for maximum permissible discharge for ammonium nitrate manufacturing operations in which ammonium nitrate is produced as an aqueous solution: | | | | | | |
| Ammonia | 0.075 lb/1000 lb | 0.0375 lb/1000 lb | 0.015 lb/1000 lb | 0.0075 lb/1000 lb | 0.05 lb/1000 lb | 0.025 lb/1000 lb |
| Nitrate | .1 lb/1000 lb | .05 lb/1000 lb | .025 lb/1000 lb | .0125 lb/1000 lb | .025 lb/1000 lb | .0125 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| (b) Limitations for maximum permissible discharge for ammonium nitrate manufacturing operations in which ammonium nitrate is prilled or granulated: | | | | | | |
| Ammonia | 0.2 lb/1000 lb | 0.1 lb/1000 lb | 0.015 lb/1000 lb | 0.0075 lb/1000 lb | 0.1 lb/1000 lb | 0.25 lb/1000 lb |
| Nitrate | .22 lb/1000 lb | .11 lb/1000 lb | .025 lb/1000 lb | .0125 lb/1000 lb | .05 lb/1000 lb | .025 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart E - Nitric Acid Subcategory | | | | | | |
| | There shall be no discharge of process waste water pollutants into navigable waters. | | There shall be no discharge of process waste water pollutants into navigable waters. | | There shall be no discharge of process waste water pollutants into navigable waters. | |

**Corrected per 39 FR 24490, July 2, 1974.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 419 - PETROLEUM REFINING | FINAL REGULATIONS, PUBLISHED 5/9/74, EFFECTIVE 5/12/74 | | | | | |
| Subpart A - Topping Subcategory | | | | | | |
| (a) | | | | | | |
| BOD5 | 8.0 lb/1000 bbl feedstock | 4.25 lb/1000 bbl feedstock | 0.92 lb/1000 bbl feedstock | 0.75 lb/1000 bbl feedstock | 4.2 lb/1000 bbl feedstock | 2.2 lb/1000 bbl feedstock |
| TSS | 4.9 lb/1000 bbl feedstock | 2.9 lb/1000 bbl feedstock | .88 lb/1000 bbl feedstock | .75 lb/1000 bbl feedstock | 2.6 lb/1000 bbl feedstock | 1.5 lb/1000 bbl feedstock |
| COD** | 41.2 lb/1000 bbl feedstock | 21.3 lb/1000 bbl feedstock | 3.5 lb/1000 bbl feedstock | 2.8 lb/1000 bbl feedstock | 21.7 lb/1000 bbl feedstock | 11.2 lb/1000 bbl feedstock |
| Oil & Grease | 2.5 lb/1000 bbl feedstock | 1.3 lb/1000 bbl feedstock | .18 lb/1000 bbl feedstock | .14 lb/1000 bbl feedstock | 1.3 lb/1000 bbl feedstock | .70 lb/1000 bbl feedstock |
| Phenolic Compounds | .060 lb/1000 bbl feedstock | .027 lb/1000 bbl feedstock | .0043 lb/1000 bbl feedstock | .0031 lb/1000 bbl feedstock | .031 lb/1000 bbl feedstock | .016 lb/1000 bbl feedstock |
| Ammonia as N | .99 lb/1000 bbl feedstock | .45 lb/1000 bbl feedstock | .24 lb/1000 bbl feedstock | .18 lb/1000 bbl feedstock | 1.0 lb/1000 bbl feedstock | .45 lb/1000 bbl feedstock |
| Sulfide | .053 lb/1000 bbl feedstock | .024 lb/1000 bbl feedstock | .019 lb/1000 bbl feedstock | .015 lb/1000 bbl feedstock | .027 lb/1000 bbl feedstock | .012 lb/1000 bbl feedstock |
| Total Chromium | .122 lb/1000 bbl feedstock | .071 lb/1000 bbl feedstock | .044 lb/1000 bbl feedstock | .037 lb/1000 bbl feedstock | .064 lb/1000 bbl feedstock | .037 lb/1000 bbl feedstock |
| Hexavalent Chromium | .0025 lb/1000 bbl feedstock | .0011 lb/1000 bbl feedstock | .00097 lb/1000 bbl feedstock | .00062 lb/1000 bbl feedstock | .0013 lb/1000 bbl feedstock | .00062 lb/1000 bbl feedstock |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

**In any case in which the applicant can demonstrate that the chloride ion concentration in the effluent exceeds 1000 mg/l (1000 ppm), the Regional Administrator may substitute TOC as a parameter in lieu of COD. Effluent limitations for TOC shall be based on effluent data from the plant correlating TOC to BOD5. If in the judgment of the Regional Administrator, adequate correlation data are not available, the effluent limitations for TOC shall be established at a ratio of 2.2 to 1 to the applicable effluent limitations on BOD5.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|

PART 419 - PETROLEUM REFINING (Continued) FINAL REGULATIONS, PUBLISHED 5/9/74, EFFECTIVE 5/12/74

Subpart A - Topping Subcategory (Continued)

(b) The limits set forth in (a) are to be multiplied by the following factors to calculate the maximum for any one day and maximum average of daily values for thirty consecutive days. (Applies to BPT, BAT and New Sources)

(1) Size factor.

| 1,000 barrels feedstock per stream day | Size factor |
|---|---|
| 0 to 49.9 | 1.02 |
| 50 to 99.9 | 1.21 |
| 100 to 149.9 | 1.44 |
| 150 or greater | 1.57 |

(2) Process factor

| Process configuration | Process factor |
|---|---|
| 1.0 to 3.99 | 0.60 |
| 4.0 to 6.99 | 1.00 |
| 7.0 to 9.99 | 1.66 |
| 10.0 to 12.99 | 2.77 |
| 13.0 to 15.0 or greater | 4.09 |

(c) The following allocations apply in addition to the discharge allowed by (b).

(1) RUNOFF. The allocation allowed for storm runoff flow, as kg/cu m (lb/m gal), shall be based solely on that storm flow (process area runoff) which is treated in the main treatment system. All additional storm runoff (from tank fields and non-process areas), that has been segregated from the main waste stream for discharge, shall not exceed a concentration of 35 mg/l of TOC or 15 mg/l of oil and grease when discharged.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 419 - PETROLEUM REFINING (Continued) | | FINAL REGULATIONS, PUBLISHED 5/9/74, EFFECTIVE 5/12/74 | | | | |
| Subpart A - Topping Subcategory (Continued) | | | | | | |
| BOD5 | 0.40 lb/1000 gal flow | 0.21 lb/1000 gal flow | 0.088 lb/1000 gal flow | 0.071 lb/1000 gal flow | 0.40 lb/1000 gal flow | 0.21 lb/1000 gal flow |
| TSS | .24 lb/1000 gal flow | .14 lb/1000 gal flow | .084 lb/1000 gal flow | .071 lb/1000 gal flow | .24 lb/1000 gal flow | .14 lb/1000 gal flow |
| COD** | 3.1 lb/1000 gal flow | 1.6 lb/1000 gal flow | .24 lb/1000 gal flow | .19 lb/1000 gal flow | 3.1 lb/1000 gal flow | 1.6 lb/1000 gal flow |
| Oil & Grease | .126 lb/1000 gal flow | .067 lb/1000 gal flow | .018 lb/1000 gal flow | .014 lb/1000 gal flow | .126 lb/1000 gal flow | .067 lb/1000 gal flow |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

(2) BALLAST. The allocation allowed for ballast water flow, as kg/cu m (lb/Mgal), shall be based on those ballast waters treated at the refinery.

| | | | | | | |
|---|---|---|---|---|---|---|
| BOD5 | 0.40 lb/1000 gal flow | 0.21 lb/1000 gal flow | 0.088 lb/1000 gal flow | 0.071 lb/1000 gal flow | 0.40 lb/1000 gal flow | 0.21 lb/1000 gal flow |
| TSS | .24 lb/1000 gal flow | .14 lb/1000 gal flow | .084 lb/1000 gal flow | .071 lb/1000 gal flow | .24 lb/1000 gal flow | .14 lb/1000 gal flow |
| COD** | 3.9 lb/1000 fal flow | 2.0 lb/1000 gal flow | .32 lb/1000 gal flow | .26 lb/1000 gal flow | 3.9 lb/1000 gal flow | 2.0 lb/1000 gal flow |
| Oil & Grease | .126 lb/1000 gal flow | .067 lb/1000 gal flow | .018 lb/1000 gal flow | .014 lb/1000 gal flow | .126 lb/1000 gal flow | .067 lb/1000 gal flow |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

(d) The quantity and quality of pollutants or pollutant properties controlled by this section, attributable to once-through cooling water, are excluded from the discharge allowed by (b) of this section. Once-through cooling water may be discharged with a total organic carbon concentration not to exceed 5 mg/l.

**In any case in which the applicant can demonstrate that the chloride ion concentration in the effluent exceeds 1000 mg/l (1000 ppm), the Regional Administrator may substitute TOC as a parameter in lieu of COD. Effluent limitations for TOC shall be based on effluent data from the plant correlating TOC to BOD5. If in the judgment of the Regional Administrator, adequate correlation data are not available, the effluent limitations for TOC shall be established at a ratio of 2.2 to 1 to the applicable effluent limitations on BOD5.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 419 - PETROLEUM REFINING (Continued) | | FINAL REGULATIONS, PUBLISHED 5/9/74, EFFECTIVE 5/12/74 | | | | |
| Subpart B - Cracking Subcategory | | | | | | |
| (a) | | | | | | |
| BOD5 | 9.9 lb/1000 bbl feedstock | 5.5 lb/1000 bbl feedstock | 1.2 lb/1000 bbl feedstock | 0.99 lb/1000 bbl feedstock | 5.8 lb/1000 bbl feedstock | 3.1 lb/1000 bbl feedstock |
| TSS | 6.1 lb/1000 bbl feedstock | 3.6 lb/1000 bbl feedstock | 1.2 lb/1000 bbl feedstock | 0.99 lb/1000 bbl feedstock | 3.5 lb/1000 bbl feedstock | 2.0 lb/1000 bbl feedstock |
| COD** | 74 lb/1000 bbl feedstock | 38.4 lb/1000 bbl feedstock | 6.8 lb/1000 bbl feedstock | 5.4 lb/1000 bbl feedstock | 41.5 lb/1000 bbl feedstock | 21.0 lb/1000 bbl feedstock |
| Oil & Grease | 3.0 lb/1000 bbl feedstock | 1.6 lb/1000 bbl feedstock | .24 lb/1000 bbl feedstock | .19 lb/1000 bbl feedstock | 1.7 lb/1000 bbl feedstock | .93 lb/1000 bbl feedstock |
| Phenolic Compounds | .074 lb/1000 bbl feedstock | .036 lb/1000 bbl feedstock | .0055 lb/1000 bbl feedstock | .0039 lb/1000 bbl feedstock | .042 lb/1000 bbl feedstock | .020 lb/1000 bbl feedstock |
| Ammonia as N | 6.6 lb/1000 bbl feedstock | 3.0 lb/1000 bbl feedstock | 1.6 lb/1000 bbl feedstock | 1.2 lb/1000 bbl feedstock | 6.6 lb/1000 bbl feedstock | 3.0 lb/1000 bbl feedstock |
| Sulfide | .065 lb/1000 bbl feedstock | .029 lb/1000 bbl feedstock | .026 lb/1000 bbl feedstock | .017 lb/1000 bbl feedstock | .037 lb/1000 bbl feedstock | .017 lb/1000 bbl feedstock |
| Total Chromium | .15 lb/1000 bbl feedstock | .088 lb/1000 bbl feedstock | .058 lb/1000 bbl feedstock | .049 lb/1000 bbl feedstock | .084 lb/1000 bbl feedstock | .049 lb/1000 bbl feedstock |
| Hexavalent Chromium | .0031 lb/1000 bbl feedstock | .0014 lb/1000 bbl feedstock | .0013 lb/1000 bbl feedstock | .0008 lb/1000 bbl feedstock | .0018 lb/1000 bbl feedstock | .00081 lb/1000 bbl feedstock |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

**In any case in which the applicant can demonstrate that the chloride ion concentration in the effluent exceeds 1,000 mg/l (1,000 ppm), the Regional Administrator may substitute TOC as a parameter in lieu of COD. Effluent limitations for TOC shall be based on effluent data from the plant correlating TOC to BOD5. If in the judgement of the Regional Administrator, adequate correlation data are not available, the effluent limitations for TOC shall be established at a ratio of 2.2 to 1 to the applicable effluent limitations on BOD5.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|

PART 419 - PETROLEUM REFINING (Continued) FINAL REGULATIONS, PUBLISHED 5/9/74, EFFECTIVE 5/12/74

Subpart B - Cracking Subcategory (Continued)

(b) The limits set forth in (a) are to be multiplied by the following factors to calculate the maximum for any one day and maximum average of daily values for thirty consecutive days. (Applies to BPT, BAT and New Sources)

(1) Size factor.

| 1,000 barrels feedstock per stream day | Size factor |
|---|---|
| 0 to 34.9 | 0.89 |
| 35 to 74.9 | 1.00 |
| 75 to 109.9 | 1.14 |
| 110 to 149.9 | 1.31 |
| 150 or greater | 1.41 |

(2) Process factor

| Process configuration | Process factor |
|---|---|
| 1.5 to 3.49 | 0.58 |
| 3.50 to 5.49 | 0.81 |
| 5.50 to 7.49 | 1.13 |
| 7.50 to 9.49 | 1.60 |
| 9.50 to 10.50 or greater | 1.87 |

(c) The provisions of Subpart A (c) (1) and (2) apply to discharges of process waste water pollutants attributable to storm water runoff and ballast water by a point source subject to the provisions of this subpart.

(d) The quantity and quality of pollutants or pollutant properties controlled by this paragraph, attributable to once-through cooling water, are excluded from the discharge allowed by (b) of this section. Once-through cooling water may be discharged a total organic carbon concentration not to exceed 5 mg/l.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 419 - PETROLEUM REFINING (Continued) | FINAL REGULATIONS, PUBLISHED 5/9/74, EFFECTIVE 5/12/74 | | | | | |
| Subpart C - Petrochemical Subcategory | | | | | | |
| (a) | | | | | | |
| BOD5 | 12.1 lb/1000 bbl feedstock | 6.5 lb/1000 bbl feedstock | 1.7 lb/1000 bbl feedstock | 1.3 lb/1000 bbl feedstock | 7.7 lb/1000 bbl feedstock | 4.1 lb/1000 bbl feedstock |
| TSS | 7.3 lb/1000 bbl feedstock | 4.25 lb/1000 bbl feedstock | 1.6 lb/1000 bbl feedstock | 1.3 lb/1000 bbl feedstock | 4.6 lb/1000 bbl feedstock | 2.7 lb/1000 bbl feedstock |
| COD** | 74 lb/1000 bbl feedstock | 38.4 lb/1000 bbl feedstock | 7.6 lb/1000 bbl feedstock | 6.1 lb/1000 bbl feedstock | 47 lb/1000 bbl feedstock | 24 lb/1000 bbl feedstock |
| Oil & Grease | 3.9 lb/1000 bbl feedstock | 2.1 lb/1000 bbl feedstock | .32 lb/1000 bbl feedstock | .26 lb/1000 bbl feedstock | 2.4 lb/1000 bbl feedstock | 1.3 lb/1000 bbl feedstock |
| Phenolic Compounds | .088 lb/1000 bbl feedstock | .0425 lb/1000 bbl feedstock | .0077 lb/1000 bbl feedstock | .0054 lb/1000 bbl feedstock | .056 lb/1000 bbl feedstock | .027 lb/1000 bbl feedstock |
| Ammonia as N | 8.25 lb/1000 bbl feedstock | 3.8 lb/1000 bbl feedstock | 2.0 lb/1000 bbl feedstock | 1.5 lb/1000 bbl feedstock | 8.3 lb/1000 bbl feedstock | 3.8 lb/1000 bbl feedstock |
| Sulfide | .078 lb/1000 bbl feedstock | .035 lb/1000 bbl feedstock | .035 lb/1000 bbl feedstock | .022 lb/1000 bbl feedstock | .050 lb/1000 bbl feedstock | .022 lb/1000 bbl feedstock |
| Total Chromium | .183 lb/1000 bbl feedstock | .107 lb/1000 bbl feedstock | .080 lb/1000 bbl feedstock | .068 lb/1000 bbl feedstock | .116 lb/1000 bbl feedstock | .068 lb/1000 bbl feedstock |
| Hexavalent Chromium | .0040 lb/1000 bbl feedstock | .0018 lb/1000 bbl feedstock | .0017 lb/1000 bbl feedstock | .0011 lb/1000 bbl feedstock | .0024 lb/1000 bbl feedstock | .0011 lb/1000 bbl feedstock |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

**In any case in which the applicant can demonstrate that the chloride ion concentration in the effluent exceeds 1,000 mg/l (1,000 ppm), the Regional Administrator may substitute TOC as a parameter in lieu of COD. Effluent limitations for TOC shall be based on effluent data from the plant correlating TOC to BOD5. If in the judgement of the Regional Administrator, adequate correlation data are not available, the effluent limitations for TOC shall be established at a ratio of 2.2 to 1 to the applicable effluent limitations on BOD5.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|

PART 419 - PETROLEUM REFINING (Continued) FINAL REGULATIONS, PUBLISHED 5/9/74, EFFECTIVE 5/12/74

Subpart C - Petrochemical Subcategory (Continued)

(b) The limits set forth in (a) are to be multiplied by the following factors to calculate the maximum for any one day and maximum average of daily values for thirty consecutive days. (Applies to BPT, BAT and New Sources)

(1) Size factor.

| 1,000 barrels feedstock per stream day | Size factor |
|---|---|
| 0 to 49.9 | 0.73 |
| 50 to 99.9 | .87 |
| 100 to 149.9 | 1.04 |
| 150 or greater | 1.13 |

(2) Process factor

| Process configuration | Process factor |
|---|---|
| 3.25 to 4.74 | 0.67 |
| 4.75 to 6.74 | .91 |
| 6.75 to 8.74 | 1.27 |
| 8.75 to 10.25 or greater | 1.64 |

(c) The provisions of Subpart A (c) (1) and (2) apply to discharges of process waste water pollutants attributable to storm water runoff and ballast water by a point source subject to the provisions of this subpart.

(d) The quantity and quality of pollutants or pollutant properties controlled by this paragraph, attributable to once-through cooling water, are excluded from the discharge allowed by (b) of this section. Once-through cooling water may be discharged with a total organic carbon concentration not to exceed 5 mg/l.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 419 - PETROLEUM REFINING (Continued) | | FINAL REGULATIONS, PUBLISHED 5/9/74, EFFECTIVE 5/12/74 | | | | |
| Subpart D - Lube Subcategory | | | | | | |
| (a) | | | | | | |
| BOD5 | 17.9 lb/1000 bbl feedstock | 9.1 lb/1000 bbl feedstock | 2.7 lb/1000 bbl feedstock | 2.2 lb/1000 bbl feedstock | 12.2 lb/1000 bbl feedstock | 6.5 lb/1000 bbl feedstock |
| TSS | 11.0 lb/1000 bbl feedstock | 6.5 lb/1000 bbl feedstock | 2.6 lb/1000 bbl feedstock | 2.2 lb/1000 bbl feedstock | 7.3 lb/1000 bbl feedstock | 4.3 lb/1000 bbl feedstock |
| COD** | 127 lb/1000 bbl feedstock | 66 lb/1000 bbl feedstock | 13.8 lb/1000 bbl feedstock | 11.0 lb/1000 bbl feedstock | 87.0 lb/1000 bbl feedstock | 45.0 lb/1000 bbl feedstock |
| Oil & Grease | 5.7 lb/1000 bbl feedstock | 3.0 lb/1000 bbl feedstock | .50 lb/1000 bbl feedstock | .40 lb/1000 bbl feedstock | 3.8 lb/1000 bbl feedstock | 2.0 lb/1000 bbl feedstock |
| Phenolic Compounds | .133 lb/1000 bbl feedstock | .065 lb/1000 bbl feedstock | .012 lb/1000 bbl feedstock | .0087 lb/1000 bbl feedstock | .088 lb/1000 bbl feedstock | .043 lb/1000 bbl feedstock |
| Ammonia as N | 8.3 lb/1000 bbl feedstock | 3.8 lb/1000 bbl feedstock | 2.0 lb/1000 bbl feedstock | 1.5 lb/1000 bbl feedstock | 8.3 lb/1000 bbl feedstock | 3.8 lb/1000 bbl feedstock |
| Sulfide | .118 lb/1000 bbl feedstock | .053 lb/1000 bbl feedstock | .055 lb/1000 bbl feedstock | .035 lb/1000 bbl feedstock | .078 lb/1000 bbl feedstock | .035 lb/1000 bbl feedstock |
| Total Chromium | .273 lb/1000 bbl feedstock | .160 lb/1000 bbl feedstock | .13 lb/1000 bbl feedstock | .11 lb/1000 bbl feedstock | .180 lb/1000 bbl feedstock | .105 lb/1000 bbl feedstock |
| Hexavalent Chromium | .0059 lb/1000 bbl feedstock | .0027 lb/1000 bbl feedstock | .0029 lb/1000 bbl feedstock | .0018 lb/1000 bbl feedstock | .0056 lb/1000 bbl feedstock | .0018 lb/1000 bbl feedstock |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

**In any case in which the applicant can demonstrate that the chloride ion concentration in the effluent exceeds 1,000 mg/l (1,000 ppm), the Regional Administrator may substitute TOC as a parameter in lieu of COD. Effluent limitations for TOC shall be based on effluent data from the plant correlating TOC to BOD5. If in the judgement of the Regional Administrator, adequate correlation data are not available, the effluent limitations for TOC shall be established at a ratio of 2.2 to 1 to the applicable effluent limitations on BOD5.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|

PART 419 - PETROLEUM REFINING (Continued) FINAL REGULATIONS, PUBLISHED 5/9/74, EFFECTIVE 5/12/74

Subpart D - Lube Subcategory (Continued)

(b) The limits set forth in (a) of this section are to be multiplied by the following factors to calculate the maximum for any one day and maximum average of daily values for thirty consecutive days. (Applies to BPT, BAT and New Sources)

(1) Size factor

| 1,000 barrels of feedstock per stream day | Size factor |
|---|---|
| 30 to 69.9 | 0.71 |
| 70 to 109.9 | 0.81 |
| 110 to 149.9 | 0.93 |
| 150 to 199.9 | 1.09 |
| 200 or greater | 1.19 |

(2) Process factor

| Process configuration | Process factor |
|---|---|
| 6.0 or less to 7.99 | 0.88 |
| 8.0 to 9.99 | 1.23 |
| 10.0 to 11.99 | 1.74 |
| 12.0 to 14.0 or greater | 2.44 |

Subpart D - Lube Subcategory (Continued)

(3) Example of the application of the above factors.

Calculation of the process configuration

| Process Category | Processes included | Weighting factor |
|---|---|---|
| Crude | Atm. crude distillation<br>Vacuum crude distillation<br>Desalting | 1 |
| Cracking and Coking | Fluid cat. cracking<br>Vis-breaking<br>Thermal cracking.<br>Moving bed cat. cracking.<br>Hydrocracking.<br>Fluid coking.<br>Delayed coking. | 6 |
| Lube | Further defined in the development document. | 13 |
| Asphalt | Asphalt production<br>Asphalt oxidation<br>Asphalt emulsifying. | 12 |

(c) The provisions of Subpart A (c) (1) and (2) apply to discharges of process waste water pollutants attributable to storm water runoff and ballast water by a point source subject to the provisions of this subpart.

(d) The quantity and quality of pollutants or pollutant properties controlled by this paragraph, attributable to once-through cooling water, are excluded from the discharge allowed by (b) of this section. Once-through cooling water may be discharged with a total organic carbon concentration not to exceed 5 mg/l.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 419 - PETROLEUM REFINING (Continued) | | FINAL REGULATIONS, PUBLISHED 5/9/74, EFFECTIVE 5/12/74 | | | | |
| Subpart E - Integrated Subcategory | | | | | | |
| BOD5 (a) | 19.2 lb/1000 bbl feedstock | 10.2 lb/1000 bbl feedstock | 3.2 lb/1000 bbl feedstock | 2.6 lb/1000 bbl feedstock | 14.7 lb/1000 bbl feedstock | 7.8 lb/1000 bbl feedstock |
| TSS | 11.6 lb/1000 bbl feedstock | 6.8 lb/1000 bbl feedstock | 3.0 lb/1000 bbl feedstock | 2.6 lb/1000 bbl feedstock | 8.7 lb/1000 bbl feedstock | 5.1 lb/1000 bbl feedstock |
| COD** | 136.0 lb/1000 bbl feedstock | 70.0 lb/1000 bbl feedstock | 16.8 lb/1000 bbl feedstock | 13.4 lb/1000 bbl feedstock | 104.0 lb/1000 bbl feedstock | 54.0 lb/1000 bbl feedstock |
| Oil & Grease | 6.0 lb/1000 bbl feedstock | 3.2 lb/1000 bbl feedstock | .60 lb/1000 bbl feedstock | .48 lb/1000 bbl feedstock | 4.5 lb/1000 bbl feedstock | 2.4 lb/1000 bbl feedstock |
| Phenolic Compounds | .14 lb/1000 bbl feedstock | .068 lb/1000 bbl feedstock | .015 lb/1000 bbl feedstock | .010 lb/1000 bbl feedstock | .105 lb/1000 bbl feedstock | .051 lb/1000 bbl feedstock |
| Ammonia as N | 8.3 lb/1000 bbl feedstock | 3.8 lb/1000 bbl feedstock | 2.0 lb/1000 bbl feedstock | 1.5 lb/1000 bbl feedstock | 8.3 lb/1000 bbl feedstock | 3.8 lb/1000 bbl feedstock |
| Sulfide | .124 lb/1000 bbl feedstock | .056 lb/1000 bbl feedstock | .066 lb/1000 bbl feedstock | .042 lb/1000 bbl feedstock | .093 lb/1000 bbl feedstock | .042 lb/1000 bbl feedstock |
| Total Chromium | .29 lb/1000 bbl feedstock | .17 lb/1000 bbl feedstock | .15 lb/1000 bbl feedstock | .13 lb/1000 bbl feedstock | .220 lb/1000 bbl feedstock | .13 lb/1000 bbl feedstock |
| Hexavalent Chromium | .0062 lb/1000 bbl feedstock | .0028 lb/1000 bbl feedstock | .0033 lb/1000 bbl feedstock | .0021 lb/1000 bbl feedstock | .0047 lb/1000 bbl feedstock | .0021 lb/1000 bbl feedstock |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

**In any case in which the applicant can demonstrate that the chloride ion concentration in the effluent exceeds 1,000 mg/l (1,000 ppm), the Regional Administrator may substitute TOC as a parameter in lieu of COD. Effluent limitations for TOC shall be based on effluent data from the plant correlating TOC to BOD5. If in the judgment of the Regional Administrator, adequate correlation data are not available, the effluent limitations for TOC shall be established at a ratio of 2.2 to 1 to the applicable effluent limitations on BOD5.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|

PART 419 - PETROLEUM REFINING (Continued) FINAL REGULATIONS, PUBLISHED 5/9/74, EFFECTIVE 5/12/74

Subpart E - Integrated Subcategory (Continued)

(b) The limits set forth in (a) of this section are to be multiplied by the following factors to calculate the maximum for any one day and the maximum average of daily values for thirty consecutive days. (Applies to BPT, BAT and New Sources)

(1) Size factor

| 1,000 barrels of feedstock per stream day | Size factor |
|---|---|
| 70 to 144.9 | 0.69 |
| 145 to 219.9 | 0.89 |
| 220 or greater | 1.02 |

(2) Process factor

| Process configuration | Process factor |
|---|---|
| 6.0 or less to 7.49 | 0.78 |
| 7.5 to 8.99 | 1.00 |
| 9.0 to 10.5 or greater | 1.30 |

(c) The provisions of Subpart A (c) (1) and (2) apply to discharges of process waste water pollutants attributable to storm water runoff and ballast water by a point source subject to the provisions of this subpart.

(d) The quantity and quality of pollutants or pollutant properties controlled by this paragraph, attributable to once-through cooling water, are excluded from the discharge allowed by (b) of this section. Once-through cooling water may be discharged with a total organic concentration not to exceed 5 mg/l.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| Part 420 - IRON AND STEEL MANUFACTURING | FINAL REGULATIONS, PUBLISHED 6/28/74, EFFECTIVE 6/28/74 (All references to lb/1000 lb are to 1000 lb of product) | | | | | |
| Subpart A - By-Product Coke Subcategory | | | | | | |
| | (a) Subject to the provisions of (b) and (c) of this section, the effluent quality required is as set forth below: | | | | | |
| Ammonia | .2736 lb/1000 lb | .0912 lb/1000 lb | .0126 lb/1000 lb | .0042 lb/1000 lb | .0126 lb/1000 lb | .0042 lb/1000 lb |
| Cyanide | .0657 lb/1000 lb | .0219 lb/1000 lb | | | | |
| Cyanide A | | | .0003 lb/1000 lb | .0001 lb/1000 lb | .0003 lb/1000 lb | .0001 lb/1000 lb |
| Oil & Grease | .0327 lb/1000 lb | .0109 lb/1000 lb | .0126 lb/1000 lb | .0042 lb/1000 lb | .0126 lb/1000 lb | .0042 lb/1000 lb |
| Phenol | .0045 lb/1000 lb | .0015 lb/1000 lb | .0006 lb/1000 lb | .0002 lb/1000 lb | .0006 lb/1000 lb | .0002 lb/1000 lb |
| TSS | .1095 lb/1000 lb | .0365 lb/1000 lb | .0312 lb/1000 lb | .0104 lb/1000 lb | .0312 lb/1000 lb | .0104 lb/1000 lb |
| Sulfide | | | .0003 lb/1000 lb | .0001 lb/1000 lb | .0003 lb/1000 lb | .0001 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| | (b) For coke plants utilizing desulfurization units, the limitations specified may be exceeded up to 15 percent by those facilities equipped with gas desulfurization units to the extent that such measured discharge is necessary by reason of the increased effluent volume generated by these facilities. | | (b) For coke plants utilizing desulfurization units, the limitations specified may be exceeded up to 25 percent by those facilities equipped with gas desulfurization units to the extent that such measured discharge is necessary by reason of the increased effluent volume generated by these facilities. | | (b) For coke plants utilizing desulfurization units, the limitations specified may be exceeded up to 25 percent by those facilities equipped with gas desulfurization units to the extent that such measured discharge is necessary by reason of the increased effluent volume generated by these facilities. | |
| | (c) For coke plants utilizing the indirect ammonia recovery process, the limitations specified in (a) of this section may be exceeded up to 30 percent by those facilities recovering ammonia by this technique, to the extent that such measured discharge is necessary by reason of the increased effluent volume generated by this process. | | (c) For coke plants utilizing the indirect ammonia recovery process, the limitations specified in (a) of this section may be exceeded up to 70 percent by those facilities recovering ammonia by this technique, to the extent that such measured discharge is necessary by reason of the increased effluent volume generated by this process. | | (c) For coke plants utilizing the indirect ammonia recovery process, the limitations specified in (a) of this section may be exceeded up to 70 percent by those facilities recovering ammonia by this technique, to the extent that such measured discharge is necessary by reason of the increased effluent volume generated by this process. | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| Part 420 - IRON AND STEEL MANUFACTURING | FINAL REGULATIONS, PUBLISHED 6/28/74, EFFECTIVE 6/28/74 | | | | | |
| Subpart B - Beehive Coke Subcategory | | | | | | |
| | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| Subpart C - Sintering Subcategory | | | | | | |
| Oil & Grease | .0063 lb/1000 lb | .0021 lb/1000 lb | .0063 lb/1000 lb | .0021 lb/1000 lb | .0063 lb/1000 lb | .0021 lb/1000 lb |
| Sulfide | | | .00018 lb/1000 lb | .00006 lb/1000 lb | .00018 lb/1000 lb | .00006 lb/1000 lb |
| Fluoride | | | .0126 lb/1000 lb | .0042 lb/1000 lb | .0126 lb/1000 lb | .0042 lb/1000 lb |
| TSS | .0312 lb/1000 lb | .0104 lb/1000 lb | .0156 lb/1000 lb | .0052 lb/1000 lb | .0156 lb/1000 lb | .0052 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart D - Blast Furnace (Iron) Subcategory | | | | | | |
| TSS | .0780 lb/1000 lb | .0260 lb/1000 lb | .0390 lb/1000 lb | .0130 lb/1000 lb | .0390 lb/1000 lb | .0130 lb/1000 lb |
| Cyanide | .0234 lb/1000 lb | .0078 lb/1000 lb | | | | |
| Cyanide A | | | .0004 lb/1000 lb | .00013 lb/1000 lb | .0004 lb/1000 lb | .00013 lb/1000 lb |
| Phenol | .0063 lb/1000 lb | .0021 lb/1000 lb | .0008 lb/1000 lb | .00026 lb/1000 lb | .0008 lb/1000 lb | .00026 lb/1000 lb |
| Ammonia | .1953 lb/1000 lb | .0651 lb/1000 lb | .0156 lb/1000 lb | .0052 lb/1000 lb | .0156 lb/1000 lb | .0052 lb/1000 lb |
| Sulfide | | | .0005 lb/1000 lb | .00016 lb/1000 lb | .0005 lb/1000 lb | .00016 lb/1000 lb |
| Fluoride | | | .0312 lb/1000 lb | .0104 lb/1000 lb | .0312 lb/1000 lb | .0104 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| Part 420 - IRON AND STEEL MANUFACTURING (Continued) | | | FINAL REGULATIONS, PUBLISHED 6/28/74, EFFECTIVE 6/28/74 | | | |
| Subpart E - Blast Furnace (Ferromanganese) Subcategory | | | | | | |
| TSS | .3129 lb/1000 lb | .1043 lb/1000 lb | .0780 lb/1000 lb | .0260 lb/1000 lb | .0780 lb/1000 lb | .0260 lb/1000 lb |
| Cyanide | .4689 lb/1000 lb | .1563 lb/1000 lb | | | | |
| Cyanide A | | | .0008 lb/1000 lb | .00026 lb/1000 lb | .0008 lb/1000 lb | .00026 lb/1000 lb |
| Phenol | .0624 lb/1000 lb | .0208 lb/1000 lb | .0016 lb/1000 lb | .00052 lb/1000 lb | .0016 lb/1000 lb | .00052 lb/1000 lb |
| Ammonia | 1.5636 lb/1000 lb | .5212 lb/1000 lb | .0312 lb/1000 lb | .0104 lb/1000 lb | .0312 lb/1000 lb | .0104 lb/1000 lb |
| Sulfide | | | .0009 lb/1000 lb | .0003 lb/1000 lb | .0009 lb/1000 lb | .0003 lb/1000 lb |
| Manganese | | | .0156 lb/1000 lb | .0052 lb/1000 lb | .0156 lb/1000 lb | .0052 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart F - Basic Oxygen Furnace (Semi-wet Air Pollution Control Methods) Subcategory | | | | | | |
| | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| Subpart G - Basic Oxygen Furnace (Wet Air Pollution Control Methods) Subcategory | | | | | | |
| TSS | .0312 lb/1000 lb | .0104 lb/1000 lb | .0156 lb/1000 lb | .0052 lb/1000 lb | .0156 lb/1000 lb | .0052 lb/1000 lb |
| Fluoride | | | .0126 lb/1000 lb | .0042 lb/1000 lb | .0126 lb/1000 lb | .0042 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| Part 420 - IRON AND STEEL MANUFACTURING (Continued) | | | FINAL REGULATIONS, PUBLISHED 6/28/74, EFFECTIVE 6/28/74 | | | |
| Subpart H - Open Hearth Furnace Subcategory | | | | | | |
| TSS | .0312 lb/1000 lb | .0104 lb/1000 lb | .0156 lb/1000 lb | .0052 lb/1000 lb | .0156 lb/1000 lb | .0052 lb/1000 lb |
| Fluoride | | | .0126 lb/1000 lb | .0042 lb/1000 lb | .0126 lb/1000 lb | .0042 lb/1000 lb |
| Nitrate | | | .0282 lb/1000 lb | .0094 lb/1000 lb | | |
| Zinc | | | .0030 lb/1000 lb | .0010 lb/1000 lb | .0030 lb/1000 lb | .0010 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart I - Electric Arc Furnace (Semi-wet Air Pollution Control Methods) Subcategory | | | | | | |
| | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| Subpart J - Electric Arc Furnace (Wet Air Pollution Control Methods) Subcategory | | | | | | |
| TSS | .0312 lb/1000 lb | .0104 lb/1000 lb | .0156 lb/1000 lb | .0052 lb/1000 lb | .0156 lb/1000 lb | .0052 lb/1000 lb |
| Fluoride | | | .0126 lb/1000 lb | .0042 lb/1000 lb | .0126 lb/1000 lb | .0042 lb/1000 lb |
| Zinc | | | .0030 lb/1000 lb | .0010 lb/1000 lb | .0030 lb/1000 lb | .0010 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart K - Vacuum Degassing Subcategory | | | | | | |
| TSS | .0156 lb/1000 lb | .0052 lb/1000 lb | .0078 lb/1000 lb | .0026 lb/1000 lb | .0078 lb/1000 lb | .0026 lb/1000 lb |
| Zinc | | | .0015 lb/1000 lb | .0005 lb/1000 lb | .0015 lb/1000 lb | .0005 lb/1000 lb |
| Manganese | | | .0015 lb/1000 lb | .0005 lb/1000 lb | .0015 lb/1000 lb | .0005 lb/1000 lb |
| Lead | | | .00015 lb/1000 lb | .00005 lb/1000 lb | .00015 lb/1000 lb | .00005 lb/1000 lb |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| Part 420 - IRON AND STEEL MANUFACTURING (Continued) | | | FINAL REGULATIONS, PUBLISHED 6/28/74, EFFECTIVE 6/28/74 | | | |
| Subpart K - Vacuum Degassing Subcategory (Continued) | | | | | | |
| Nitrate | | | .0141 lb/1000 lb | .0047 lb/1000 lb | | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart L - Continuous Casting Subcategory | | | | | | |
| TSS | .0780 lb/1000 lb | .0260 lb/1000 lb | .0156 lb/1000 lb | .0052 lb/1000 lb | .0156 lb/1000 lb | .0052 lb/1000 lb |
| Oil & Grease | .0234 lb/1000 lb | .0078 lb/1000 lb | .0156 lb/1000 lb | .0052 lb/1000 lb | .0156 lb/1000 lb | .0052 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|

PART 421 - NONFERROUS METALS FINAL REGULATIONS, PUBLISHED 4/8/74, EFFECTIVE 6/3/74

Subpart A - Bauxite Refining Subcategory

(a) Subject to the provisions of paragraph (b) of this section, there shall be no discharge of process waste water pollutants to navigable waters.

(b) During any calendar month there may be discharged from the overflow of a process waste water impoundment either a volume of process waste water equal to the difference between the precipitation for that month that falls within the impoundment and the evaporation within the impoundment for that month, or, if greater, a volume of process waste water equal to the difference between the mean precipitation for that month that falls within the impoundment and the mean evaporation for that month as established by the National Climatic Center, National Oceanic and Atmospheric Administration, for the area in which such impoundment is located (or as otherwise determined if no monthly data have been established by the National Climatic Center).

Subpart B - Primary Aluminum Smelting Subcategory

| | | | | | | |
|---|---|---|---|---|---|---|
| Fluoride | 2.0 lb/1000 lb of product | 1.0 lb/1000 lb of product | 0.1 lb/1000 lb of product | 0.05 lb/1000 lb of product | 0.05 lb/1000 lb of product | 0.025 lb/1000 lb of product |
| TSS | 3.0 lb/1000 lb of product | 1.5 lb/1000 lb of product | .2 lb/1000 lb of product | .1 lb/1000 lb of product | .1 lb/1000 lb of product | .05 lb/1000 lb of product |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

Subpart C - Secondary Aluminum Smelting Subcategory

(a) The following limitations establish the quantity or quality of pollutants or pollutant properties, which may be discharged by a point source subject to the provisions of this subpart and which uses water for metal cooling, after application of the best practicable control technology currently available: There shall be no discharge of process waste water pollutants to navigable waters.

There shall be no discharge of process waste water pollutants to navigable waters.

(a) The following standards of performance establish the quantity or quality of pollutants or pollutant properties which may be discharged by a new source subject to the provisions of this subpart: There shall be no discharge of process waste water pollutants to navigable waters.

(b) Application of the factors listed in section 306(b) of the Act may require variation from the standard of performance set forth in this section for any point source subject

| Parameter | *BPT Average of daily values for 30 consecutive days shall not exceed- | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|
| PART 421 - NONFERROUS METALS (Continued) | FINAL REGULATIONS, PUBLISHED 4/8/74, EFFECTIVE 6/3/74 | | | | |
| Subpart C - Secondary Aluminum Smelting Subcategory (Continued) | | | | | |
| | (b) The following limitations establish the quantity or quality of pollutants or pollutant properties which may be discharged by a point source subject to the provisions of this subpart and which uses aluminum fluoride in its magnesium removal process ("demagging process"), after application of the best practicable control technology currently available: There shall be no discharge of process waste water pollutants to navigable waters. | | | to such standard of performance and which uses chlorine in the magnesium removal process ("demagging" process). If variation is determined to be necessary for any such source, the discharge of process waste water pollutants shall be allowed from the magnesium removal process only, and such source shall be subject to effluent limitations no less stringent than those required by (c), BAT. | |
| | (c) The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged by a point source subject to the provisions of this subpart and which uses chlorine in its magnesium removal process, after application of the best practicable control technology currently available: | | | | |
| TSS | 175 lbs/1000 lb magnesium removed | | | | |
| COD | 6.5 lbs/1000 lb magnesium removed | | | | |
| pH | 7.5 - 9.0 | | | | |

| Parameter | *BPT Average of daily values for 30 consecutive days shall not exceed - | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|

PART 421 - NONFERROUS METALS (Continued) FINAL REGULATIONS, PUBLISHED 4/8/74, EFFECTIVE 6/3/74

Subpart C - Secondary Aluminum Smelting Subcategory (Continued)

(d) The following limitations establish the quantity or quality of pollutants or pollutant properties which may be discharged by a point source subject to the provisions of this subpart and which processes residues by wet methods, after application of the best practical control technology currently available.

| | |
|---|---|
| TSS | 1.5 lb/1000 lb of product |
| Fluoride | .4 lb/1000 lb of product |
| Ammonia (as N) | .01 lb/1000 lb of product |
| Aluminum | 1.0 lb/1000 lb of product |
| Copper | .003 lb/1000 lb of product |
| COD | 1.0 lb/1000 lb of product |
| pH | 7.5 - 9.0 |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 422 - PHOSPHATE MANUFACTURING | FINAL REGULATIONS, PUBLISHED 2/20/74, EFFECTIVE 4/22/74 | | | | (All references to lb/1000 lb are to 1000 lb of product) | |
| Subpart A - Phosphorus Production Subcategory | | | | | | |
| TSS | 1.0 lb/1000 lb | 0.5 lb/1000 lb | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| Total Phosphorus | .30 lb/1000 lb | .15 lb/1000 lb | | | | |
| Fluoride | .10 lb/1000 lb | .05 lb/1000 lb | | | | |
| Elemental Phosphorus | No detectable quantity. | | | | | |
| pH | 6.0 - 9.0 | | | | | |
| Subpart B - Phosphorus Consuming Subcategory | | | | | | |
| The provisions of this subpart are applicable to discharges of pollutants resulting from the manufacture of phosphoric acid, phosphorus pentoxide, phosphorus pentasulfide, phosphorus trichloride, and phosphorus oxychloride directly from elemental phosphorus. The production of phosphorus trichloride and phosphorus oxychloride creates waste water pollutants not completely amenable to the procedures utilized for best practicable control technology currently available. The standards set for phosphorus trichloride manufacture and phosphorus oxychloride manufacture, accordingly, must differ from the rest of the subcategory at this level of treatment. | | | | | | |
| (a) There shall be no discharge of process waste water pollutants to navigable waters from the manufacture of phosphoric acid, phosphorus pentoxide, or phosphorus pentasulfide. | | | There shall be no discharge to navigable waters of process waste water pollutants to resulting from the manufacture of phosphoric acid, phosphorus pentoxide, phosphorus pentasulfide, phosphorus trichloride or phosphorus oxychloride. | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| (b) Pollutants or pollutant properties which may be discharged in process waste water from phosphorus trichloride manufacturing on the basis of production: | | | | | | |
| TSS | 1.4 lb/1000 lb | 0.7 lb/1000 lb | | | | |
| Total Phosphorus | 1.6 lb/1000 lb | 0.8 lb/1000 lb | | | | |
| Arsenic | .0001 lb/1000 lb | .00005 lb/1000 lb | | | | |
| Elemental Phosphorus | No detectable quantity. | | | | | |
| pH | 6.0 - 9.0 | | | | | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 422 - PHOSPHATE MANUFACTURING (Continued) | | | | | | |
| Subpart B - Phosphorus Consuming Subcategory (Continued) | | | | | | |
| (c) Pollutants or pollutant properties which may be discharged in process waste water from phosphorus oxychloride manufacturing on the basis of production: | | | | | | |
| TSS | 0.3 lb/1000 lb | 0.15 lb/1000 lb | | | | |
| Total Phosphorus | .34 lb/1000 lb | .17 lb/1000 lb | | | | |
| pH | 6.0 - 9.0 | | | | | |
| Subpart C - Phosphate Subcategory | | | | | | |
| (a) There shall be no discharge of process waste water pollutants to navigable waters from the manufacture of sodium tripolyphosphate, or animal feed grade calcium phosphate. | | | There shall be no discharge of process waste water pollutants resulting from the manufacture of sodium tripolyphosphate, animal feed grade calcium phosphate, or human food grade calcium phosphate | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| (b) The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this paragraph, which may be discharged in process waste water from human food grade calcium phosphate manufacturing based on production: | | | | | | |
| TSS | 0.12 lb/1000 lb | 0.06 lb/1000 lb | | | | |
| Total Phosphorus | .06 lb/1000 lb | .03 lb/1000 lb | | | | |
| pH | 6.0 - 9.0 | | | | | |

| Parameter | BPT Daily | BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 423 - STEAM ELECTRIC POWER GENERATING EQUIPMENT - PROPOSED REGULATIONS (FINAL REGULATIONS NOT PROMULGATED AT TIME OF SUMMARY PUBLICATION DATE) | | | | | | |
| | (a)(1) There shall be no discharge of heat from a large base-load unit for which construction is completed on or after July 1, 1977, except that heat may be discharged in blowdown from recirculating cooling water systems provided that the temperature at which the blowdown is discharged does not exceed at any time the lowest temperature of the recirculating cooling water prior to the addition of make-up water.<br><br>(2) The limitation in paragraph (a)(1) of this section shall not apply where the owner or operator of a unit otherwise subject to it can demonstrate:<br><br>(i) That sufficient land for mechanical draft evaporative cooling towers is not available on the premises or on adjoining property under the ownership or control of the owner or operator, as of the date on which these regulations were proposed, with some amount of land use reassignment and no other available alternative evaporative cooling system is practicable, or<br><br>(ii) That total dissolved solids concentrations in available intake cooling water exceed 30,000 mg/l, and land not owned or controlled by the owner or operator is located within 150 m (500 ft) downwind (prevailing) of all practicable locations for mechanical draft cooling towers and no other alternative evaporative cooling system is practicable. | | (a)(1) There shall be no discharge of heat, except that heat may be discharged in blowdown from the recirculating condenser cooling water system provided that the temperature at which the blowdown is discharged does not exceed at any time the lowest temperature of the recirculating cooling water prior to the addition of make-up water.<br><br>(2) The limitation set forth in subparagraph (a)(1) shall be achieved as follows:<br><br>(i) No later than July 1, 1978, by baseload units presently in operation or on which construction is completed prior to July 1, 1977, with a nameplate generating capacity of 500 megawatts or greater.<br><br>(ii) No later than July 1, 1979, by base-load units presently in operation or on which construction is completed prior to July 1, 1977, with a nameplate generating capacity of less than 500 megawatts, but greater than 299 megawatts.<br><br>(iii) No later than July 1, 1980, by all other large base-load units.<br><br>(iv) No later than July 1, 1983, by all other units, including cyclic units, peaking units and small base-load units.<br><br>(3) The limitation set forth in subparagraph (a)(1) shall not apply to units as to which the owner or operator can demonstrate that (1) sufficient land for mechanical draft | | (a) There shall be no discharge of heat by any new sources, except that heat may be discharged in blowdown from recirculating cooling water systems provided that the temperature at which the blowdown is discharged does not exceed at any time the lowest temperature of the recirculating cooling water prior to the addition of make-up water.<br><br>(b) The effluent limitations in BAT (b) through (n) shall apply to discharges of pollutants other than heat, except as provided in the following:<br><br>(c) There shall be no discharge of:<br><br>(1) corrosion inhibitors in blowdown from recirculating cooling water systems;<br><br>(2) total residual chlorine, or other chemical additives used for biological control in main condenser tubes from nonrecirculating cooling water systems;<br><br>(3) pollutants from systems providing sluicing of bottom ash from the combustion of oil or fly ash from the combustion of any fuel; or<br><br>(4) pollutants from nonrecirculating ash sluicing systems.<br><br>(d) Where waste waters from one source with effluent limitations for a particular pollutant are combined with other waste | |

| Parameter | BPT Daily | BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 423 - STEAM ELECTRIC POWER GENERATING EQUIPMENT (Continued) | | | | | | |
| | (3) The limitations in paragraph (a)(1) shall not apply to discharges from nonrecirculating house service water systems in nuclear-fueled generating units, and to waste water discharges from low-volume waste sources or intermediate volume waste sources other than blowdown from recirculating cooling water systems.<br><br>(b) There shall be no discharge of pollutants from clarification water treatment and softening water treatment.<br><br>(c) Concentrations of free available chlorine in waste water discharged from nonrecirculating and recirculating cooling water systems shall not exceed average concentrations of 0.2 mg/l and maximum concentrations of 0.5 mg/l at the outlet corresponding to an individual unit during a maximum of one 2-hour period a day. No discharge of total residual chlorine is otherwise allowed. No discharge of total residual chlorine is allowed from one unit while another unit at the same plant is being chlorinated. When it can be demonstrated by the owner or operator that higher levels of free available chlorine or more lengthy total periods of application are required to maintain a reasonable level of condenser tube cleanliness for nonrecirculating cooling water systems, discharges of amounts of free available chlorine in excess of the above limitations which are necessary to maintain such level of condenser tube cleanliness may be permitted.<br><br>(d) There shall be no discharge of polychlorinated biphenyl transformer fluid. | | evaporative cooling towers is not available on the premises, with a reasonably significant amount of land use reassignment or on adjoining properties, whether or not owned or controlled by the owner or operator, and (2) none of the available alternative evaporative cooling systems is practicable.<br><br>(4) The limitations set forth in subparagraph (a)(1) shall not apply to discharges from nonrecirculating house service water systems in nuclear-fueled units.<br><br>(b) The effluent limitations set forth in BAT (c), (f)(2), (g), (h), (i), (k)(2), and (k)(3) shall apply to discharges of pollutants from recirculating and nonrecirculating cooling water, and sanitary wastes, except that no discharge is allowed of total residual chlorine from recirculating cooling water systems shall that total chromium, total phosphorus (as P), and total zinc in waste water from recirculating cooling water systems shall not exceed daily average amounts, mg, of 0.2 mg/l total chromium x FLOW, total phosphorus (as P) of 5 mg/l x FLOW and 1 mg/l of total zinc x FLOW.<br><br>(c)(1) There shall be no discharge of waste water from run-off waste sources, taken collectively as if from one source, unless the first 15 minutes of rainfall run-off are segregated from the remainder during any rainfall event. | | waters (such as the combination of waste water from low-volume waste sources with nonrecirculating cooling water), the effluent limitation, mg (or mg/l) for the particular pollutant, excluding pH, for the combined stream shall be the sum of the effluent limitations (for concentration limits apply appropriate dilution factors) for each of the streams which contribute to the combined stream except that the actual amount, mg (or mg/l), of the pollutant in a contributing stream will be used in place of the effluent limitation for those contributing streams where the actual amount, mg (or mg/l), of the pollutant is less than the effluent limitation, mg (or mg/l), for the contributing stream. | |

| Parameter | BPT Daily | BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|

PART 423 - STEAM ELECTRIC POWER GENERATING EQUIPMENT (Continued)

(e) Total iron and total copper in waste water from low-volume waste sources shall not exceed daily average amounts, mg, of 1 mg/l total copper x FLOW and 1 mg/l total iron x FLOW.

(f)(1) Total suspended solids in waste water from low-volume waste sources shall not exceed daily average amounts, mg. of 15 mg/l x FLOW or a maximum amount, mg, for any one day of 100 mg/l x FLOW.

(2) Total suspended solids in waste water from recirculating cooling water systems shall not exceed daily average amounts, mg, of 15 mg/l x FLOW or a maximum amount, mg, for any one day of 100 mg/l x FLOW.

(3) Total suspended solids in waste water from nonrecirculating ash sluicing systems and from nonrecirculating wet-scrubber air pollution control systems shall not exceed daily average amounts, mg, of 15 mg/l x FLOW or a maximum amount, mg, for any one day of 100 mg/l x FLOW, except that amounts, mg, in excess of the above limitations are allowed only to the extent that the amount, mg, of total suspended solids in waste water from nonrecirculating ash sluicing systems and from nonrecirculating wet-scrubber air pollution control systems does not exceed the amount, mg, of total suspended solids brought into the plant, over the same time span, for use in conjunction with the nonrecirculating ash sluicing system or the nonrecirculating wet-scrubber air pollution control system, respectively.

(2) Total suspended solids and oil and grease in waste waters from the first 15 minutes of rainfall run-off from any rainfall event, taken collectively as if from one source, shall not exceed average concentrations of 15 mg/l and 10 mg/l, respectively, and maximum concentrations of 100 mg/l and 20 mg/l, respectively.

(3) Total suspended solids and oil and grease in waste waters from all but the first 15 munutes of rainfall run-off from any rainfall event, taken collectively as if from one source, shall not exceed average concentrations of 15 mg/l and 10 mg/l, respectively, and maximum concentrations of 100 mg/l and 20 mg/l, respectively.

(d) There shall be no discharge of pollutants other than those controlled by paragraphs (a), (b), and (c) of this section.

(e) There is no effluent limitation on waste waters from the radiological waste system presented in this regulation.

(f) Where waste waters from one source, with effluent limitations for a particular pollutant, are combined with other waste waters (such as the combination of waste water from low-volume waste sources with nonrecirculating cooling water), the effluent limitation, mg (or mg/l), for the particular pollutant, excluding pH, for the combined stream shall be the sum of the effluent limitations (for concentration limits apply appropriate dilution factors) for each of the streams which contribute to the combined stream except that the actual amount, mg (or mg/l), of the pollutant in a contributing

| Parameter | BPT Daily | BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|

PART 423 - STEAM ELECTRIC POWER GENERATING EQUIPMENT (Continued)

(4) Total suspended solids in waste water run-off from rainfall run-off sources, taken collectively as if from one source, including coal pile drainage, yard and roof drainage, and run-off from construction activities shall not exceed average concentrations of 15 mg/l during the time span of each run-off event or a maximum concentration of 100 mg/l at any time.

(g) The pH value of all streams discharged, with the exception of nonrecirculating cooling water, shall be in the range of 6.0 - 9.0 at all times.

(h) Waste waters discharged from the sanitary system shall meet applicable standards for publicly-owned treatment works specified in 40 CFR Part 133.

(i) No debris from the intake means shall be discharged.

(j) There is no effluent limitation on waste waters from the radiological waste system presented in this regulation.

(k)(1) Oil and grease in waste water from low-volume waste sources shall not exceed daily average amounts, mg, of 10 mg/l x FLOW, or a maximum concentration of 20 mg/l at any time.

(2) Oil and grease in waste water from recirculating cooling water systems shall not exceed daily average amounts, mg, of 10 mg/l x FLOW.

stream will be used in place of the effluent limitation for those contributing streams where the actual amount, mg (or mg/l), of the pollutant is less than the effluent limitation, mg (or mg/l), for the contributing stream.

| Parameter | BPT Daily | BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|

PART 423 - STEAM ELECTRIC POWER GENERATING EQUIPMENT (Continued)

(3) Oil and grease in waste water from rainfall run-off sources, taken collectively as if from one source, shall not exceed daily average concentrations of 10 mg/l during the time span of each run-off event or a maximum concentration of 20 mg/l at any time.

(4) Oil and grease in waste waters from nonrecirculating ash sluicing systems and from nonrecirculating wet-scrubber air pollution control system shall not exceed daily average amounts, mg, of 10 mg/l x FLOW.

(1) Where waste waters from one source with effluent limitations for a particular pollutant are combined with other waste waters (such as the combination of waste water from low-volume sources with non-recirculating cooling water), the effluent limitation, mg (or mg/l), for the particular pollutant, excluding pH, for the combined stream shall be the sum of the effluent limitations (for concentration limits apply appropriate dilution factors) for each of the streams which contribute to the combined stream, except that the actual amount, mg (or mg/l), of the pollutant in a contributing stream will be used in place of the effluent limitation for those contributing streams where the actual amount, mg (or mg/l), of the pollutant is less than the effluent limitation, mg (or mg/l), for the contributing stream.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 424 - FERROALLOY MANUFACTURING | FINAL REGULATIONS, PUBLISHED 2/22/74, EFFECTIVE 4/23/74 | | | | | |
| Subpart A - Open Electric Furnaces with Wet Air Pollution Control Devices Subcategory | | | | | | |
| TSS | 0.703 lb/Mwh | 0.352 lb/Mwh | 0.052 lb/Mwh | 0.026 lb/Mwh | 0.052 lb/Mwh | 0.026 lb/Mwh |
| Chromium total | .014 lb/Mwh | .007 lb/Mwh | .0017 lb/Mwh | .0009 lb/Mwh | .0017 lb/Mwh | .0009 lb/Mwh |
| Chromium VI | .0014 lb/Mwh | .0007 lb/Mwh | .0002 lb/Mwh | .0001 lb/Mwh | .0002 lb/Mwh | .0001 lb/Mwh |
| Manganese total | .141 lb/Mwh | .070 lb/Mwh | .017 lb/Mwh | .0086 lb/Mwh | .017 lb/Mwh | .0086 lb/Mwh |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart B - Covered Electric Furnaces and Other Smelting Operations with Wet Air Pollution Control Devices Subcategory | | | | | | |
| TSS | 0.922 lb/Mwh | 0.461 lb/Mwh | 0.071 lb/Mwh | 0.035 lb/Mwh | 0.071 lb/Mwh | 0.035 lb/Mwh |
| Chromium total | .018 lb/Mwh | .009 lb/Mwh | .002 lb/Mwh | .0012 lb/Mwh | .002 lb/Mwh | .0012 lb/Mwh |
| Chromium VI | .0018 lb/Mwh | .0009 lb/Mwh | .0002 lb/Mwh | .0001 lb/Mwh | .0002 lb/Mwh | .0001 lb/Mwh |
| Manganese total | .184 lb/Mwh | .092 lb/Mwh | .023 lb/Mwh | .012 lb/Mwh | .023 lb/Mwh | .012 lb/Mwh |
| Cyanide total | .009 lb/Mwh | .005 lb/Mwh | .001 lb/Mwh | .0006 lb/Mwh | .001 lb/Mwh | .0006 lb/Mwh |
| Phenols | .013 lb/Mwh | .009 lb/Mwh | .0009 lb/Mwh | .0005 lb/Mwh | .0009 lb/Mwh | .0005 lb/Mwh |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

Provided, however, that for nonelectric furnace smelting processes, the units of the effluent limitations set forth in this section shall be read as "lb/ton of products," rather than "lb/Mwh," and the limitations (except for pH) shall be three times those listed in the table in this section.

NOTE: "Mwh" shall mean megawatt hour(s) of electrical energy consumed in the smelting process (furnace power consumption).

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 424 - FERROALLOY MANUFACTURING (Continued) | | | FINAL REGULATIONS, PUBLISHED 2/22/74, EFFECTIVE 4/23/74 | | | |
| Subpart C - Slag Processing Subcategory | | | | | | |
| TSS | 5.319 lb/ton processed | 2.659 lb/ton processed | 0.542 lb/ton processed | 0.271 lb/ton processed | 0.542 lb/ton processed | 0.271 lb/ton processed |
| Chromium total | .106 lb/ton processed | .053 lb/ton processed | .011 lb/ton processed | .0054 lb/ton processed | .011 lb/ton processed | .0054 lb/ton processed |
| Manganese total | 1.064 lb/ton processed | .532 lb/ton processed | .108 lb/ton processed | .054 lb/ton processed | .108 lb/ton processed | .054 lb/ton processed |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 425 - LEATHER TANNING AND FINISHING | | FINAL REGULATIONS, PUBLISHED 4/9/74, EFFECTIVE 6/4/74 | | | | |
| Subpart A - Hair Pulp Unhairing with Chrome Tanning and Finishing Subcategory | | | | | | |
| | (a) | | | | (a) | |
| BOD5 | 8.0 lb/1000 lb of raw material | 4.0 lb/1000 lb of raw material | 2.8 lb/1000 lb of raw material | 1.40 lb/1000 lb of raw material | 8.0 lb/1000 lb of raw material | 4.0 lb/1000 lb of raw material |
| TSS | 10.0 lb/1000 lb of raw material | 5.0 lb/1000 lb of raw material | 3.0 lb/1000 lb of raw material | 1.50 lb/1000 lb of raw material | 10.0 lb/1000 lb of raw material | 5.0 lb/1000 lb of raw material |
| Chrome | 0.20 lb/1000 lb of raw material | 0.10 lb/1000 lb of raw material | .1 lb/1000 lb of raw material | .05 lb/1000 lb of raw material | .20 lb/1000 lb of raw material | .10 lb/1000 lb of raw material |
| Oil & Grease | 1.50 lb/1000 lb of raw material | 0.75 lb/1000 lb of raw material | 1.06 lb/1000 lb of raw material | .53 lb/1000 lb of raw material | 1.50 lb/1000 lb of raw material | .75 lb/1000 lb of raw material |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Sulfide | | | .01 lb/1000 lb of raw material | .005 lb/1000 lb of raw material | | |
| TKN | | | .54 lb/1000 lb of raw material | .27 lb/1000 lb of raw material | | |
| Fecal Coliform | | | Maximum at any time: 400 counts per 100 ml. | | | |
| | (b) | | | | (b) | |
| | Additional allocations equal to one-half the above effluent limitations for BOD5 and TSS established in (a) of this section are allowed any point source subject to such effluent limitations with a production less than 17,000 kg hides per day. | | | | Additional allocations equal to one-half the above effluent limitations for BOD5 and TSS established in (a) of this section are allowed any point source subject to such effluent limitations with a production less than 17,000 kg hides per day. | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 425 - LEATHER TANNING AND FINISHING (Continued) | | | FINAL REGULATIONS, PUBLISHED 4/9/74, EFFECTIVE 6/4/74 | | | |
| Subpart B - Hair Save Unhairing with Chrome Tanning and Finishing Subcategory | | | | | | |
| | (a) | | | | (a) | |
| BOD5 | 9.2 lb/1000 lb of raw material | 4.6 lb/1000 lb of raw material | 3.2 lb/1000 lb of raw material | 1.60 lb/1000 lb of raw material | 9.2 lb/1000 lb of raw material | 4.6 lb/1000 lb of raw material |
| TSS | 11.6 lb/1000 lb of raw material | 5.8 lb/1000 lb of raw material | 3.6 lb/1000 lb of raw material | 1.80 lb/1000 lb of raw material | 11.6 lb/1000 lb of raw material | 5.8 lb/1000 lb of raw material |
| Chrome | .24 lb/1000 lb of raw material | .12 lb/1000 lb of raw material | .12 lb/1000 lb of raw material | .06 lb/1000 lb of raw material | .24 lb/1000 lb of raw material | .12 lb/1000 lb of raw material |
| Oil & Grease | 1.80 lb/1000 lb of raw material | .90 lb/1000 lb of raw material | 1.26 lb/1000 lb of raw material | .63 lb/1000 lb of raw material | 1.80 lb/1000 lb of raw material | .90 lb/1000 lb of raw material |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Sulfide | | | .012 lb/1000 lb of raw material | .006 lb/1000 lb of raw material | | |
| TKN | | | .64 lb/1000 lb of raw material | .32 lb/1000 lb of raw material | | |
| Fecal Coliform | | | Maximum at any time: 400 counts per 100 ml. | | | |
| | (b) | | | | (b) | |
| | Additional allocations equal to one-half the above effluent limitations for BOD5 and TSS established in (a) of this section are allowed any point source subject to such effluent limitations with a production less than 17,000 kg hides per day. | | | | Additional allocations equal to one-half the above effluent limitations for BOD5 and TSS established in (a) of this section are allowed any point source subject to such effluent limitations with a production less than 17,000 kg hides per day. | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 425 - LEATHER TANNING AND FINISHING (Continued) | | | FINAL REGULATIONS, PUBLISHED 4/9/74, EFFECTIVE 6/4/74 | | | |
| Subpart C - Unhairing with Vegetable or Alum Tanning and Finishing Subcategory | | | | | | |
| | (a) | | | | (a) | |
| BOD5 | 7.6 lb/1000 lb of raw material | 3.8 lb/1000 lb of raw material | 2.6 lb/1000 lb of raw material | 1.30 lb/1000 lb of raw material | 7.6 lb/1000 lb of raw material | 3.8 lb/1000 lb of raw material |
| TSS | 9.6 lb/1000 lb of raw material | 4.8 lb/1000 lb of raw material | 2.8 lb/1000 lb of raw material | 1.40 lb/1000 lb of raw material | 9.6 lb/1000 lb of raw material | 4.8 lb/1000 lb of raw material |
| Chrome | .1 lb/1000 lb of raw material | .05 lb/1000 lb of raw material | .1 lb/1000 lb of raw material | .05 lb/1000 lb of raw material | .1 lb/1000 lb of raw material | .05 lb/1000 lb of raw material |
| Oil & Grease | 1.50 lb/1000 lb of raw material | .75 lb/1000 lb of raw material | 1.0 lb/1000 lb of raw material | .50 lb/1000 lb of raw material | 1.50 lb/1000 lb of raw material | .75 lb/1000 lb of raw material |
| Sulfide | | | .01 lb/1000 lb of raw material | .005 lb/1000 lb of raw material | | |
| TKN | | | .5 lb/1000 lb of raw material | .25 lb/1000 lb of raw material | | |
| Fecal Coliform | | | Maximum at any time: 400 counts per 100 ml. | | | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| | (b) | | | | (b) | |
| | Additional allocations equal to one-half the above effluent limitations for BOD5 and TSS established in (a) of this section are allowed any point source subject to such effluent limitations with a production less than 17,000 kg hides per day. | | | | Additional allocations equal to one-half the above effluent limitations for BOD5 and TSS established in (a) of this section are allowed any point source subject to such effluent limitations with a production less than 17,000 kg hides per day. | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 425 - LEATHER TANNING AND FINISHING (Continued) | | | FINAL REGULATIONS, PUBLISHED 4/9/74, EFFECTIVE 6/4/74 | | | |
| Subpart D - Finishing of Tanned Hides Subcategory | | | | | | |
| | (a) | | | | (a) | |
| BOD5 | 3.2 lb/1000 lb of raw material | 1.6 lb/1000 lb of raw material | 1.0 lb/1000 lb of raw material | 0.50 lb/1000 lb of raw material | 3.2 lb/1000 lb of raw material | 1.6 lb/1000 lb of raw material |
| TSS | 4.0 lb/1000 lb of raw material | 2.0 lb/1000 lb of raw material | 1.2 lb/1000 lb of raw material | .60 lb/1000 lb of raw material | 4.0 lb/1000 lb of raw material | 2.0 lb/1000 lb of raw material |
| Chrome | .20 lb/1000 lb of raw material | .10 lb/1000 lb of raw material | .04 lb/1000 lb of raw material | .02 lb/1000 lb of raw material | .20 lb/1000 lb of raw material | .10 lb/1000 lb of raw material |
| Oil & Grease | .50 lb/1000 lb of raw material | .25 lb/1000 lb of raw material | .48 lb/1000 lb of raw material | .24 lb/1000 lb of raw material | .50 lb/1000 lb of raw material | .25 lb/1000 lb of raw material |
| Sulfide | | | .004 lb/1000 lb of raw material | .002 lb/1000 lb of raw material | | |
| TKN | | | .2 lb/1000 lb of raw material | .10 lb/1000 lb of raw material | | |
| Fecal Coliform | | | Maximum at any time: 400 counts per 100 ml. | | | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| | (b) | | | | (b) | |
| | Additional allocations equal to one-half the above effluent limitations for BOD5 and TSS established in (a) of this section are allowed any point source subject to such effluent limitations with a production less than 17,000 kg hides per day. | | | | Additional allocations equal to one-half the above effluent limitations for BOD5 and TSS established in (a) of this section are allowed any point source subject to such effluent limitations with a production less than 17,000 kg hides per day. | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 425 - LEATHER TANNING AND FINISHING (Continued) | | | FINAL REGULATIONS, PUBLISHED 4/9/74, EFFECTIVE 6/4/74 | | | |
| Subpart E - Vegetable or Chrome Tanning of Unhaired Hides Subcategory | | | | | | |
| | (a) | | | | | |
| BOD5 | 9.6 lb/1000 lb of raw material | 4.8 lb/1000 lb of raw material | 3.2 lb/1000 lb of raw material | 1.60 lb/1000 lb of raw material | 9.6 lb/1000 lb of raw material | 4.8 lb/1000 lb of raw material |
| TSS | 12.0 lb/1000 lb of raw material | 6.0 lb/1000 lb of raw material | 3.6 lb/1000 lb of raw material | 1.80 lb/1000 lb of raw material | 12.0 lb/1000 lb of raw material | 6.0 lb/1000 lb of raw material |
| Chrome | .12 lb/1000 lb of raw material | .06 lb/1000 lb of raw material | .12 lb/1000 lb of raw material | .06 lb/1000 lb of raw material | .12 lb/1000 lb of raw material | .06 lb/1000 lb of raw material |
| Oil & Grease | 1.80 lb/1000 lb of raw material | .90 lb/1000 lb of raw material | 1.26 lb/1000 lb of raw material | .63 lb/1000 lb of raw material | 1.80 lb/1000 lb of raw material | .90 lb/1000 lb of raw material |
| Sulfide | | | .012 lb/1000 lb of raw material | .006 lb/1000 lb of raw material | | |
| TKN | | | .62 lb/1000 lb of raw material | .31 lb/1000 lb of raw material | | |
| Fecal Coliform | | | Maximum at any time: 400 counts per 100 ml. | | | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| | (b) Additional allocations equal to one-half the above effluent limitations for BOD5 and TSS established in (a) of this section are allowed any point source subject to such effluent limitations with a production less than 17,000 kg hides per day. | | | | (b) Additional allocations equal to one-half the above effluent limitations for BOD5 and TSS established in (a) of this section are allowed any point source subject to such effluent limitations with a production less than 17,000 kg hides per day. | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 425 - LEATHER TANNING AND FINISHING (Continued) | | | FINAL REGULATIONS, PUBLISHED 4/9/74, EFFECTIVE 6/4/74 | | | |
| Subpart F - Unhairing with Chrome Tanning and No Finishing Subcategory | | | | | | |
| | (a) | | | | | |
| BOD5 | 5.6 lb/1000 lb of raw material | 2.8 lb/1000 lb of raw material | 1.4 lb/1000 lb of raw material | 0.70 lb/1000 lb of raw material | 5.6 lb/1000 lb of raw material | 2.8 lb/1000 lb of raw material |
| TSS | 6.8 lb/1000 lb of raw material | 3.4 lb/1000 lb of raw material | 1.6 lb/1000 lb of raw material | .80 lb/1000 lb of raw material | 6.8 lb/1000 lb of raw material | 3.4 lb/1000 lb of raw material |
| Chrome | .20 lb/1000 lb of raw material | .10 lb/1000 lb of raw material | .06 lb/1000 lb of raw material | .03 lb/1000 lb of raw material | .20 lb/1000 lb of raw material | .10 lb/1000 lb of raw material |
| Oil & Grease | .70 lb/1000 lb of raw material | .35 lb/1000 lb of raw material | .68 lb/1000 lb of raw material | .34 lb/1000 lb of raw material | .70 lb/1000 lb of raw material | .35 lb/1000 lb of raw material |
| Sulfide | | | .006 lb/1000 lb of raw material | .003 lb/1000 lb of raw material | | |
| TKN | | | .28 lb/1000 lb of raw material | .14 lb/1000 lb of raw material | | |
| Fecal Coliform | | | Maximum at any time: 400 counts per 100 ml. | | | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| | (b) | | | | (b) | |
| | Additional allocations equal to one-half the above effluent limitations for BOD5 and TSS established in (a) of this section are allowed any point source subject to such effluent limitations with a production less than 17,000 kg hides per day. | | | | Additional allocations equal to one-half the above effluent limitations for BOD5 and TSS established in (a) of this section are allowed any point source subject to such effluent limitations with a production less than 17,000 kg hides per day. | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 426 - GLASS MANUFACTURING | SUBPART A - INSULATION FIBERGLASS - FINAL REGULATIONS PUBLISHED 1/22/74, EFFECTIVE 3/25/74<br>SUBPARTS B - G - FINAL REGULATIONS PUBLISHED 2/14/74, EFFECTIVE 4/15/74 (All references to lb/1000 lb, lb/ton, lb/1000 sq ft, are to units of product) | | | | | |
| Subpart A - Insulation Fiberglass Subcategory | | | | | | |
| | (a) There shall be no discharge of process waste water pollutants to navigable waters, except as permitted in subparagraph (b) below.<br>(b) The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged in process waste water from advanced air emission control devices, when such water cannot be consumed in the process. | | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| Phenol | 0.0006 lb/1000 lb | 0.0003 lb/1000 lb | | | | |
| COD | .33 lb/1000 lb | .165 lb/1000 lb | | | | |
| BOD5 | .024 lb/1000 lb | .012 lb/1000 lb | | | | |
| TSS | .03 lb/1000 lb | .015 lb/1000 lb | | | | |
| pH | 6.0 - 9.0 | | | | | |
| Subpart B - Sheet Glass Manufacturing Subcategory | | | | | | |
| | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 426 - GLASS MANUFACTURING (Continued) | | | | | | |
| Subpart C - Rolled Glass Manufacturing Subcategory | | | | | | |
| | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| Subpart D - Plate Glass Manufacturing Subcategory | | | | | | |
| TSS | 5.52 lb/ton | 2.76 lb/ton | 0.090 lb/ton | 0.090 lb/ton | There shall be no discharge of process waste water pollutants to navigable waters. | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | | |
| Subpart E - Float Glass Manufacturing Subcategory | | | | | | |
| TSS | 0.0040 lb/ton | 0.0040 lb/ton | 0.0014 lb/ton | 0.0014 lb/ton | 0.0014 lb/ton | 0.0014 lb/ton |
| Oil | .0028 lb/ton | .0028 lb/ton | .0028 lb/ton | .0028 lb/ton | .0028 lb/ton | .0028 lb/ton |
| Phosphorus | .0001 lb/ton | .0001 lb/ton | .0001 lb/ton | .0001 lb/ton | .0001 lb/ton | .0001 lb/ton |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart F - Automotive Glass Tempering Subcategory | | | | | | |
| TSS | 0.40 lb/1000 sq ft | 0.25 lb/1000 sq ft | 0.05 lb/1000 sq ft | 0.05 lb/1000 sq ft | 0.05 lb/1000 sq ft | 0.05 lb/1000 sq ft |
| Oil | .13 lb/1000 sq ft | .13 lb/1000 sq ft | .10 lb/1000 sq ft | .10 lb/1000 sq ft | .10 lb/1000 sq ft | .10 lb/1000 sq ft |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 426 - GLASS MANUFACTURING (Continued) | | | | | | |
| Subpart G - Automotive Glass Laminating Subcategory | | | | | | |
| TSS | 0.90 lb/1000 sq ft | 0.90 lb/1000 sq ft | 0.18 lb/1000 sq ft | 0.18 lb/1000 sq ft | 0.18 lb/1000 sq ft | 0.18 lb/1000 sq ft |
| Oil | .36 lb/1000 sq ft | .36 lb/1000 sq ft | .36 lb/1000 sq ft | .36 lb/1000 sq ft | .36 lb/1000 sq ft | .36 lb/1000 sq ft |
| Phosphorus | .22 lb/1000 sq ft | .22 lb/1000 sq ft | .06 lb/1000 sq ft | .06 lb/1000 sq ft | .06 lb/1000 sq ft | .06 lb/1000 sq ft |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 427 - ASBESTOS MANUFACTURING | | | FINAL REGULATIONS, PUBLISHED 2/26/74, EFFECTIVE 4/29/74 | | | |
| Subpart A - Asbestos-Cement Pipe Subcategory | | | | | | |
| TSS | 1.14 lb/ton of product | 0.38 lb/ton of product | There shall be no discharge of process waste water pollutants to navigable waters. | | 1.14 lb/ton of product | 0.38 lb/ton of product |
| pH | 6.0 - 9.0 | | | | 6.0 - 9.0 | |
| Subpart B - Asbestos-Cement Sheet Subcategory | | | | | | |
| TSS | 1.35 lb/ton of product | 0.45 lb/ton of product | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| pH | 6.0 - 9.0 | | | | | |
| Subpart C - Asbestos Paper (Starch Binder) Subcategory | | | | | | |
| TSS | 1.10 lb/ton of product | 0.70 lb/ton of product | There shall be no discharge of process water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| pH | 6.0 - 9.0 | | | | | |
| Subpart D - Asbestos Paper (Elastomeric Binder) Subcategory | | | | | | |
| TSS | 1.10 lb/ton of product | 0.70 lb/ton of product | There shall be no discharge of process waste water pollutants to navigable waters. | | 1.10 lb/ton of product | 0.70 lb/ton of product |
| pH | 6.0 - 9.0 | | | | 6.0 - 9.0 | |
| Subpart E - Asbestos Millboard Subcategory | | | | | | |
| | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| Subpart F - Asbestos Roofing Subcategory | | | | | | |
| COD | 0.029 lb/ton of product | 0.016 lb/ton of product | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| TSS | .020 lb/ton of product | .012 lb/ton of product | | | | |
| pH | 6.0 - 9.0 | | | | | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 427 - ASBESTOS MANUFACTURING (Continued) | | | FINAL REGULATIONS, PUBLISHED 2/26/74, EFFECTIVE 4/29/74 | | | |
| Subpart G - Asbestos Floor Tile Subcategory | | | | | | |
| COD | 0.30 lb/mpc of product | 0.18 lb/mpc of product | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| TSS | .13 lb/mpc of product | .08 lb/mpc of product | | | | |
| pH | 6.0 - 9.0 | | | | | |

NOTE: "mpc" shall mean 1000 pieces of floor tile. "Pieces" shall mean floor tile measured in the standard size of 12" x 12" x 3/32".

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 428 - RUBBER PROCESSING | FINAL REGULATIONS, PUBLISHED 2/21/74, EFFECTIVE 4/22/74 | | | | (All references to lb/1000 lb are to 1000 lb of product) | |
| Subpart A - Tire and Inner Tube Plants Subcategory | | | | | | |
| TSS | 0.096 lb/1000 lb | 0.064 lb/1000 lb | 0.096 lb/1000 lb | 0.064 lb/1000 lb | 0.096 lb/1000 lb | 0.064 lb/1000 lb |
| Oil&Grease | .024 lb/1000 lb | .016 lb/1000 lb | .024 lb/1000 lb | .016 lb/1000 lb | .024 lb/1000 lb | .016 lb/1000 lb |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart B - Emulsion Crumb Rubber Subcategory | | | | | | |
| COD | 12.00 lb/1000 lb | 8.00 lb/1000 lb | 3.12 lb/1000 lb | 2.08 lb/1000 lb | Limitations shall be as specified in BPT | |
| BOD5 | .60 lb/1000 lb | .40 lb/1000 lb | .12 lb/1000 lb | .08 lb/1000 lb | | |
| TSS | .98 lb/1000 lb | .65 lb/1000 lb | .24 lb/1000 lb | .16 lb/1000 lb | | |
| Oil&Grease | .24 lb/1000 lb | .16 lb/1000 lb | .12 lb/1000 lb | .08 lb/1000 lb | | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | | |
| Subpart C - Solution Crumb Rubber Subcategory | | | | | | |
| COD | 5.91 lb/1000 lb | 3.94 lb/1000 lb | 3.12 lb/1000 lb | 2.08 lb/1000 lb | Limitations shall be as specified in BPT | |
| BOD5 | .60 lb/1000 lb | .40 lb/1000 lb | .12 lb/1000 lb | .08 lb/1000 lb | | |
| TSS | .98 lb/1000 lb | .65 lb/1000 lb | .24 lb/1000 lb | .16 lb/1000 lb | | |
| Oil&Grease | .24 lb/1000 lb | .16 lb/1000 lb | .12 lb/1000 lb | .08 lb/1000 lb | | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 428 - RUBBER PROCESSING (Continued) | | FINAL REGULATIONS, PUBLISHED 2/21/74, EFFECTIVE 4/22/74 | | | | |
| Subpart D - Latex Rubber Subcategory | | | | | | |
| COD | 10.27 lb/1000 lb | 6.85 lb/1000 lb | 2.66 lb/1000 lb | 1.78 lb/1000 lb | Limitations shall be as specified in BPT | |
| BOD5 | .51 lb/1000 lb | .34 lb/1000 lb | .11 lb/1000 lb | .07 lb/1000 lb | | |
| TSS | .82 lb/1000 lb | .55 lb/1000 lb | .21 lb/1000 lb | .14 lb/1000 lb | | |
| Oil&Grease | .21 lb/1000 lb | .14 lb/1000 lb | .11 lb/1000 lb | .07 lb/1000 lb | | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 429 - TIMBER PRODUCTS | FINAL REGULATIONS, PUBLISHED 4/18/74, EFFECTIVE 5/23/74 | | | | | |
| Subpart A - Barking Subcategory | | | | | | |
| | (a) Subject to the provisions of paragraph (b) of this section, there shall be no discharge of process waste water pollutants into navigable waters. | | There shall be no discharge of process waste water pollutants into navigable waters. | | (a) Subject to the provisions of paragraph (b) of this section, there shall be no discharge of process waste water pollutants into navigable waters. | |
| | (b) The following limitations constitute the maximum permissible discharge for those barking processes which utilize hydraulic barkers: | | | | (b) The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this paragraph, which may be discharged by a new source which utilizes a hydraulic barker(s) subject to the provisions of this subpart. | |
| BOD5 | 0.09 lb/cu ft of product | 0.03 lb/cu ft of product | | | 0.09 lb/cu ft of product | 0.03 lb/cu ft of product |
| TSS | .431 lb/cu ft of product | 0.144 lb/cu ft of product | | | 0.431 lb/cu ft of product | 0.144 lb/cu ft of product |
| pH | 6.0 - 9.0 | | | | 6.0 - 9.0 | |
| Subpart B - Veneer Subcategory | | | | | | |
| | (a) Subject to the provisions of paragraphs (b), and (c) of this section, there shall be no discharge of process waste water pollutants into navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| | (b) The following limitations constitute the maximum permissible discharge for softwood veneer manufacturing processes which use direct steaming for the conditioning of logs: | | | | | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 429 - TIMBER PRODUCTS (Continued) | | | | | | |
| Subpart B - Veneer Subcategory (Continued) | | | | | | |
| BOD5 | 0.045 lb/cu ft of product | 0.015 lb/cu ft of product | | | | |
| pH | 6.0 - 9.0 | | | | | |
| | (c) The following limitations constitute the maximum permissible discharge for hardwood veneer manufacturing processes which use direct steaming for the conditioning of logs: | | | | | |
| BOD5 | 0.10 lb/cu ft of product | 0.034 lb/cu ft of product | | | | |
| pH | 6.0 - 9.0 | | | | | |
| Subpart C - Plywood Subcategory | | | | | | |
| | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters | |
| Subpart D - Hardboard-Dry Process Subcategory | | | | | | |
| | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| Subpart E - Hardboard-Wet Process Subcategory | | | | | | |
| BOD5 | 15.6 lb/2000 lb of product | 5.2 lb/2000 lb of product | 5.4 lb/2000 lb of product | 1.8 lb/2000 lb of product | 5.4 lb/2000 lb of product | 1.8 lb/2000 lb of product |
| TSS | 33.0 lb/2000 lb of product | 11.0 lb/2000 lb of product | 6.6 lb/2000 lb of product | 2.2 lb/2000 lb of product | 6.6 lb/2000 lb of product | 2.2 lb/2000 lb of product |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 429 - TIMBER PRODUCTS (Continued) | | | | | | |
| Subpart F - Wood Preserving Subcategory | | | | | | |
| | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |
| Subpart G - Wood Preserving-Steam Subcategory | | | | | | |
| COD | 68.5 lb/1000 $ft^3$ of product | 34.5 lb/1000 $ft^3$ of product | 13.7 lb/1000 $ft^3$ of product | 6.9 lb/1000 $ft^3$ of product | 13.7 lb/1000 $ft^3$ of product | 6.9 lb/1000 $ft^3$ of product |
| Phenols | .14 lb/1000 $ft^3$ of product | .04 lb/1000 $ft^3$ of product | .014 lb/1000 $ft^3$ of product | .004 lb/1000 $ft^3$ of product | .014 lb/1000 $ft^3$ of product | .004 lb/1000 $ft^3$ of product |
| Oil & Grease | 1.5 lb/1000 $ft^3$ of product | .75 lb/1000 $ft^3$ of product | .42 lb/1000 $ft^3$ of product | .21 lb/1000 $ft^3$ of product | .42 lb/1000 $ft^3$ of product | .21 lb/1000 $ft^3$ of product |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart H - Wood Preserving-Boultonizing Subcategory | | | | | | |
| | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | | There shall be no discharge of process waste water pollutants to navigable waters. | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 430 - PULP, PAPER AND PAPERBOARD | FINAL REGULATIONS, PUBLISHED 5/29/74, EFFECTIVE 5/29/74 (All references to lb/ton are lb/ton of product) | | | | | |
| Subpart A - Unbleached Kraft Subcategory | | | | | | |
| BOD5 | 11.2 lb/ton | 5.6 lb/ton | 5.4 lb/ton | 2.7 lb/ton | 6.2 lb/ton | 3.1 lb/ton |
| TSS | 24.0 lb/ton | 12.0 lb/ton | 7.4 lb/ton | 3.7 lb/ton | 15.0 lb/ton | 7.5 lb/ton |
| Color | | | 30.0 lb/ton | 20.0 lb/ton | 30.0 lb/ton | 20.0 lb/ton |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart B - Sodium Based Neutral Sulfite Semi-Chemical Subcategory | | | | | | |
| BOD5 | 17.4 lb/ton | 8.7 lb/ton | 9.0 lb/ton | 4.5 lb/ton | 10.4 lb/ton | 5.2 lb/ton |
| TSS | 22.0 lb/ton | 11.0 lb/ton | 10.0 lb/ton | 5.0 lb/ton | 15.4 lb/ton | 7.7 lb/ton |
| Color | | | 75 percent removal. | | | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart C - Ammonia Base Neutral Sulfite Semi-Chemical Subcategory | | | | | | |
| BOD5 | 16.0 lb/ton | 8.0 lb/ton | 12.8 lb/ton | 6.4 lb/ton | 15.0 lb/ton | 7.5 lb/ton |
| TSS | 20.0 lb/ton | 10.0 lb/ton | 10.4 lb/ton | 5.2 lb/ton | 15.0 lb/ton | 7.5 lb/ton |
| Color | | | 75 percent removal. | | | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 430 - PULP, PAPER AND PAPERBOARD (Continued) | | | | | | |
| Subpart D - Unbleached Kraft--Neutral Sulfite Semi-Chemical (Cross Recovery) Subcategory | | | | | | |
| BOD5 | 16.0 lb/ton | 8.0 lb/ton | 6.4 lb/ton | 3.2 lb/ton | 7.6 lb/ton | 3.8 lb/ton |
| TSS | 25.0 lb/ton | 12.5 lb/ton | 8.4 lb/ton | 4.2 lb/ton | 16.0 lb/ton | 8.0 lb/ton |
| Color | | | 37.5 lb/ton | 25.0 lb/ton | 37.5 lb/ton | 25.0 lb/ton |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |
| Subpart E - Paperboard From Waste Paper Subcategory | | | | | | |
| BOD5 | 6.0 lb/ton | 3.0 lb/ton | 2.6 lb/ton | 1.3 lb/ton | 3.0 lb/ton | 1.5 lb/ton |
| TSS | 10.0 lb/ton | 5.0 lb/ton | 3.2 lb/ton | 1.6 lb/ton | 8.0 lb/ton | 4.0 lb/ton |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 431 - BUILDERS PAPER AND BOARD | FINAL REGULATIONS, PUBLISHED 5/9/74, EFFECTIVE 5/9/74 | | | | | |
| Subpart A - Builders Paper and Roofing Felt Subcategory | | | | | | |
| BOD5 | 10.0 lb/ton of product | 6.0 lb/ton of product | 3.5 lb/ton of product | 2.0 lb/ton of product | 3.5 lb/ton of product | 2.0 lb/ton of product |
| TSS | 10.0 lb/ton of product | 6.0 lb/ton of product | 3.5 lb/ton of product | 2.0 lb/ton of product | 3.5 lb/ton of product | 2.0 lb/ton of product |
| Settleable Solids | Not to exceed 0.2 ml/l | | Not to exceed 0.2 ml/l | | Not to exceed 0.2 ml/l | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | 6.0 - 9.0 | |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 432 - MEAT PRODUCTS | FINAL REGULATIONS, PUBLISHED 2/28/74, EFFECTIVE 4/29/74 | | | | | |
| Subpart A - Simple Slaughterhouse Subcategory | | | | | | |
| (a) On-site slaughter or subsequent meat, meat product or by-product processing of carcasses of animals slaughtered on-site: | | | | | | |
| BOD5 | 0.24 lb/1000 lb LWK | 0.12 lb/1000 lb LWK | 0.06 lb/1000 lb LWK | 0.03 lb/1000 lb LWK | Limitations shall be as in appropriate BPT with exception that in addition to the pollutants or pollutant properties controlled by that subsection, discharges of ammonia shall not exceed limitations set forth below: | |
| TSS | .40 lb/1000 lb LWK | .20 lb/1000 lb LWK | .10 lb/1000 lb LWK | .05 lb/1000 lb LWK | | |
| Oil&Grease | .12 lb/1000 lb LWK | .06 lb/1000 lb LWK | 10.0 mg/l effluent | -- | | |
| Fecal Coliform | 400 mpn/100 ml max. at any time | | 400 mpn/100 max. at any time | | | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | | |
| Ammonia | | | 8.0 mg/l effluent | 4.0 mg/l effluent | 0.34 lb/1000 lb LWK | 0.17 lb/1000 lb LWK |
| (b) If plants process hides from other plants in addition to its own, add to (a): | | | | | | |
| BOD5 | 0.04 lb/1000 lb ELWK | 0.02 lb/1000 lb ELWK | | | | |
| TSS | .08 lb/1000 lb ELWK | .04 lb/1000 lb ELWK | | | | |
| (c) If plants process blood from other plants in addition to its own, add to (a): | | | | | | |
| BOD5 | 0.04 lb/1000 lb ELWK | 0.02 lb/1000 lb ELWK | 0.014 lb/1000 lb ELWK | 0.007 lb/1000 lb ELWK | | |
| TSS | .08 lb/1000 lb ELWK | .04 lb/1000 lb ELWK | .026 lb/1000 lb ELWK | .013 lb/1000 lb ELWK | | |
| Ammonia | | | | | 0.06 lb/1000 lb ELWK | 0.03 lb/1000 lb ELWK |

NOTE: "LWK" (live weight killed) shall mean the total weight of the total number of animals slaughtered during the time to which the effluent limitations apply; i.e., during any one day or any period of thirty consecutive days.

"ELWK" (equivalent live weight killed) shall mean the total weight of the total number of animals slaughtered at locations other than the slaughterhouse or packinghouse, which animals provide hides, blood, viscera or renderable materials for processing at that slaughterhouse, in addition to those derived from animals slaughtered on site.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 432 - MEAT PRODUCTS (Continued) | FINAL REGULATIONS, PUBLISHED 2/28/74, EFFECTIVE 4/29/74 | | | | | |
| Subpart A - Simple Slaughterhouse Subcategory | | | | | | |
| (d) If plants employ wet or low-temperature rendering of material from plants in addition to its own, add to (a): | | | | | | |
| BOD5 | 0.06 lb/1000 lb ELWK | 0.03 lb/1000 lb ELWK | 0.02 lb/1000 lb ELWK | 0.01 lb/1000 lb ELWK | | |
| TSS | .12 lb/1000 lb ELWK | .06 lb/1000 lb ELWK | .04 lb/1000 lb ELWK | .02 lb/1000 lb ELWK | | |
| Ammonia | | | | | 0.10 lb/1000 lb ELWK | 0.05 lb/1000 lb ELWK |
| (e) If plants employ dry rendering of material from other plants in addition to its own, add to (a): | | | | | | |
| BOD5 | 0.02 lb/1000 lb ELWK | 0.01 lb/1000 lb ELWK | 0.006 lb/1000 lb ELWK | 0.003 lb/1000 lb ELWK | | |
| TSS | .04 lb/1000 lb ELWK | .02 lb/1000 lb ELWK | .014 lb/1000 lb ELWK | .007 lb/1000 lb ELWK | | |
| pH | 6.0 - 9.0 | | | | | |
| Ammonia | | | | | 0.04 lb/1000 lb ELWK | 0.02 lb/1000 lb ELWK |
| Subpart B - Complex Slaughterhouse Subcategory | | | | | | |
| (a) On-site slaughter or subsequent meat, meat product or by-product processing of carcasses of animals slaughtered on-site: | | | | | | |
| BOD5 | 0.42 lb/1000 lb LWK | 0.21 lb/1000 lb LWK | 0.08 lb/1000 lb LWK | 0.04 lb/1000 lb LWK | The limitations shall be as in appropriate BPT with the following addition: | |
| TSS | .50 lb/1000 lb LWK | .25 lb/1000 lb LWK | .14 lb/1000 lb LWK | .07 lb/1000 lb LWK | | |
| Oil&Grease | .16 lb/1000 lb LWK | .08 lb/1000 lb LWK | 10.0 mg/l effluent | --- | | |
| Fecal Coliform | Max. at any time 400 mpn/100 ml | | Max. at any time 400 mpn/100 ml | | | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | | |
| Ammonia | | | 8.0 mg/l effluent | 4.0 mg/l effluent | 0.48 lb/1000 lb LWK | 0.24 lb/1000 lb LWK |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 432 - MEAT PRODUCTS (Continued) | FINAL REGULATIONS, PUBLISHED 2/28/74, EFFECTIVE 4/29/74 | | | | | |
| Subpart B - Complex Slaughterhouse Subcategory | | | | | | |
| (b) If plants process hides from other plants in addition to its own, add to (a): | | | | | | |
| BOD5 | 0.04 lb/1000 lb ELWK | 0.02 lb/1000 lb ELWK | | | | |
| TSS | .08 lb/1000 lb ELWK | .04 lb/1000 lb ELWK | | | | |
| (c) If plants process blood from other plants in addition to its own, add to (a): | | | | | | |
| BOD5 | **0.04 lb/1000 lb ELWK | 0.02 lb/1000 lb ELWK | 0.014 lb/1000 lb ELWK | 0.007 lb/1000 lb ELWK | | |
| TSS | **0.08 lb/1000 lb ELWK | .04 lb/1000 lb ELWK | .026 lb/1000 lb ELWK | .013 lb/1000 lb ELWK | | |
| Ammonia | | | | | 0.06 lb/1000 lb ELWK | 0.03 lb/1000 lb ELWK |
| (d) If plants employ wet or low-temperature rendering of material from plants in addition to its own, add to (a): | | | | | | |
| BOD5 | 0.06 lb/1000 lb ELWK | 0.03 lb/1000 lb ELWK | 0.02 lb/1000 lb ELWK | 0.01 lb/1000 lb ELWK | | |
| TSS | .12 lb/1000 lb ELWK | .06 lb/1000 lb ELWK | .04 lb/1000 lb ELWK | .02 lb/1000 lb ELWK | | |
| Ammonia | | | | | 0.10 lb/1000 lb ELWK | 0.05 lb/1000 lb ELWK |
| (e) If plants employ dry rendering of material from other plants in addition to its own, add to (a): | | | | | | |
| BOD5 | 0.02 lb/1000 lb ELWK | 0.01 lb/1000 lb ELWK | 0.006 lb/1000 lb ELWK | 0.003 lb/1000 lb ELWK | | |
| TSS | .04 lb/1000 lb ELWK | .02 lb/1000 lb ELWK | .014 lb/1000 lb ELWK | .007 lb/1000 lb ELWK | | |
| Ammonia | | | | | 0.04 lb/1000 lb ELWK | 0.02 lb/1000 lb ELWK |

**Corrected per 39 FR 26423, July 19, 1974.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 432 - MEAT PRODUCTS (Continued) | FINAL REGULATIONS, PUBLISHED 2/28/74, EFFECTIVE 4/29/74 | | | | | |
| Subpart C - Low-Processing Packinghouse Subcategory | | | | | | |
| (a) On-site slaughter or subsequent meat, meat product or by-product processing of carcasses of animals slaughtered on-site: | | | | | | |
| BOD5 | 0.34 lb/1000 lb LWK | 0.17 lb/1000 lb LWK | 0.08 lb/1000 lb LWK | 0.04 lb/1000 lb LWK | The limitations shall be as in appropriate BPT, with the following addition: | |
| TSS | .48 lb/1000 lb LWK | .24 lb/1000 lb LWK | .12 lb/1000 lb LWK | .06 lb/1000 lb LWK | | |
| Oil&Grease | .16 lb/1000 lb LWK | .08 lb/1000 lb LWK | 10.0 mg/l effluent | --- | | |
| Fecal Coliform | Max. at any time 400 mpn/100 ml | | Max. at any time 400 mpn/100 ml | | | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | | |
| Ammonia | | | 8.0 mg/l effluent | 4.0 mg/l effluent | 0.48 lb/1000 lb LWK | 0.24 lb/1000 lb LWK |
| (b) If plants process hides from other plants in addition to its own, add to (a): | | | | | | |
| BOD5 | 0.04 lb/1000 lb ELWK | 0.02 lb/1000 lb ELWK | | | | |
| TSS | .08 lb/1000 lb ELWK | .04 lb/1000 lb ELWK | | | | |
| (c) If plants process blood from other plants in addition to its own, add to (a): | | | | | | |
| BOD5 | 0.04 lb/1000 lb ELWK | 0.02 lb/1000 lb ELWK | 0.014 lb/1000 lb ELWK | 0.007 lb/1000 lb ELWK | | |
| TSS | .08 lb/1000 lb ELWK | .04 lb/1000 lb ELWK | .026 lb/1000 lb ELWK | .013 lb/1000 lb ELWK | | |
| Ammonia | | | | | 0.06 lb/1000 lb ELWK | 0.03 lb/1000 lb ELWK |
| (d) If plants employ wet or low-temperature rendering of material from plants in addition to its own, add to (a): | | | | | | |
| BOD5 | 0.06 lb/1000 lb ELWK | 0.03 lb/1000 lb ELWK | 0.02 lb/1000 lb ELWK | 0.01 lb/1000 lb ELWK | | |
| TSS | .12 lb/1000 lb ELWK | .06 lb/1000 lb ELWK | .04 lb/1000 lb ELWK | .02 lb/1000 lb ELWK | | |
| Ammonia | | | | | 0.10 lb/1000 lb ELWK | 0.05 lb/1000 lb ELWK |

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 432 - MEAT PRODUCTS (Continued) | FINAL REGULATIONS, PUBLISHED 2/28/74, EFFECTIVE 4/29/74 | | | | | |
| (e) If plants employ dry rendering of material from other plants in addition to its own, add to (a): | | | | | | |
| BOD5 | 0.02 lb/1000 lb ELWK | 0.01 lb/1000 lb ELWK | 0.006 lb/1000 lb ELWK | 0.003 lb/1000 lb ELWK | | |
| TSS | .04 lb/1000 lb ELWK | .02 lb/1000 lb ELWK | .014 lb/1000 lb ELWK | .007 lb/1000 lb ELWK | | |
| Ammonia | | | | | 0.04 lb/1000 lb ELWK | 0.02 lb/1000 lb ELWK |
| Subpart D - High-Processing Packinghouse Subcategory | | | | | | |
| (a) On-site slaughter or subsequent meat, meat product or by-product processing of carcasses of animals slaughtered on-site: | | | | | | |
| BOD5+ | 0.48 lb/1000 lb LWK | 0.24 lb/1000 lb LWK | 0.16 lb/1000 lb LWK | 0.08 lb/1000 lb LWK | The limitations shall be as in appropriate BPT, with the following addition: | |
| TSS+ | .62 lb/1000 lb LWK | .31 lb/1000 lb LWK | .20 lb/1000 lb LWK | .10 lb/1000 lb LWK | | |
| Oil&Grease | .26 lb/1000 lb LWK | .13 lb/1000 lb LWK | 10.0 mg/l effluent | -- | | |
| Fecal Coliform | Max. at any time 400 mpn/100 ml | | Max. at any time 400 mpn/100 ml | | | |
| pH | 6.0 - 9.0 | | 6.0 - 9.0 | | | |
| Ammonia | | | 8.0 mg/l effluent | 4.0 mg/l effluent | 0.80 lb/1000 lb LWK | 0.40 lb/1000 lb LWK |
| (b) If plants process hides from other plants in addition to its own, add to (a): | | | | | | |
| BOD5 | 0.04 lb/1000 lb ELWK | 0.02 lb/1000 lb ELWK | | | | |
| TSS | .08 lb/1000 lb ELWK | .04 lb/1000 lb ELWK | | | | |

+The values for BOD5 and suspended solids are for average plants, i.e., plants with a ratio of average weight of processed meat products to average LWK of 0.55. Adjustments can be made for high-processing packinghouses at other ratios according to the following equations:

(BPT:) kg BOD5/1000 kg LWK = 0.21+0.23 (v-0.4)
kg SS/1000 kg LWK = 0.28+0.30 (v-0.4)
where v=kg processed meat products/kg LWK.

(BAT:) kg BOD5/1000 kg LWK = 0.07 + 0.08 (v-0.4)
kg SS/1000 kg LWK = 0.09 + 0.10 (v-0.4)
where v=kg processed meat products/kg LWK.

| Parameter | *BPT Daily | *BPT 30 Day | BAT Daily | BAT 30 Day | New Sources Daily | New Sources 30 Day |
|---|---|---|---|---|---|---|
| PART 432 - MEAT PRODUCTS (Continued) | FINAL REGULATIONS, PUBLISHED 2/28/74, EFFECTIVE 4/29/74 | | | | | |
| (c) If plants process blood from other plants in addition to its own, add to (a): | | | | | | |
| BOD5 | 0.04 lb/1000 lb ELWK | 0.02 lb/1000 lb ELWK | 0.014 lb/1000 lb ELWK | 0.007 lb/1000 lb ELWK | | |
| TSS | .08 lb/1000 lb ELWK | .04 lb/1000 lb ELWK | .026 lb/1000 lb ELWK | .013 lb/1000 lb ELWK | | |
| Ammonia | | | | | 0.06 lb/1000 lb ELWK | 0.03 lb/1000 lb ELWK |
| (d) If plants employ wet or low-temperature rendering of material from plants in addition to its own, add to (a): | | | | | | |
| BOD5 | 0.06 lb/1000 lb ELWK | 0.03 lb/1000 lb ELWK | 0.02 lb/1000 lb ELWK | 0.01 lb/1000 lb ELWK | | |
| TSS | .12 lb/1000 lb ELWK | .06 lb/1000 lb ELWK | .04 lb/1000 lb ELWK | .02 lb/1000 lb ELWK | | |
| Ammonia | | | | | 0.10 lb/1000 lb ELWK | 0.05 lb/1000 lb ELWK |
| (e) If plants employ dry rendering of material from other plants in addition to its own, add to (a): | | | | | | |
| BOD5 | 0.02 lb/1000 lb ELWK | 0.01 lb/1000 lb ELWK | 0.006 lb/1000 lb ELWK | 0.003 lb/1000 lb ELWK | | |
| TSS | .04 lb/1000 lb ELWK | .02 lb/1000 lb ELWK | .014 lb/1000 lb ELWK | .007 lb/1000 lb ELWK | | |
| Ammonia | | | | | 0.04 lb/1000 lb ELWK | 0.02 lb/1000 lb ELWK |

# CLEAN WATER