

**Environmental Protection Agency**

**§ 419.32**

the total refinery flow to the POTW; and (3) by the ratio of the cooling tower discharge flow to the total refinery flow.

Pollutant or pollutant property	Pretreatment standards for new sources—maximum for any 1 day
	Milligrams per liter (mg/l)
Total chromium .....	1

**Subpart C—Petrochemical Subcategory**

**§ 419.30 Applicability; description of the petrochemical subcategory.**

The provisions of this subpart are applicable to all discharges from any facility that produces petroleum products by the use of topping, cracking, and petrochemical operations whether or not the facility includes any process in addition to topping, cracking, and petrochemical operations. The provisions of this subpart shall not be applicable, however, to facilities that include the processes specified in subpart D or E of this part.

**§ 419.31 Specialized definitions.**

For the purpose of this subpart:

(a) The general definitions, abbreviations, and methods of analysis set forth in part 401 of this chapter and the specialized definitions set forth in § 419.11 shall apply.

(b) The term *petrochemical operations* shall mean the production of second-generation petrochemicals (*i.e.*, alcohols, ketones, cumene, styrene, etc.) or first generation petrochemicals and isomerization products (*i.e.*, BTX, olefins, cyclohexane, etc.) when 15 percent or more of refinery production is as first-generation petrochemicals and isomerization products.

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

(a) Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must

achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

Pollutant or pollutant property	BPT Effluent limitations	
	Maximum for any 1 day	Average of daily values for 30 consecutive days shall not exceed
	Metric units (kilograms per 1,000 m <sup>3</sup> of feedstock)	
BOD <sub>5</sub> .....	34.6	18.4
TSS .....	23.4	14.8
COD <sup>1</sup> .....	210.0	109.0
Oil and grease .....	11.1	5.9
Phenolic compound .....	0.25	0.120
Ammonia as N .....	23.4	10.6
Sulfide .....	0.22	0.099
Total chromium .....	0.52	0.30
Hexavalent chromium .....	0.046	0.020
pH .....	( <sup>2</sup> )	( <sup>2</sup> )
	English units (pounds per 1,000 bbl of feedstock)	
BOD <sub>5</sub> .....	12.1	6.5
TSS .....	8.3	5.25
COD <sup>1</sup> .....	74.0	38.4
Oil and grease .....	3.9	2.1
Phenolic compounds .....	0.088	0.0425
Ammonia as N .....	8.25	3.8
Sulfide .....	0.078	0.035
Total chromium .....	0.183	0.107
Hexavalent chromium .....	0.016	0.0072
pH .....	( <sup>2</sup> )	( <sup>2</sup> )

<sup>1</sup> See footnote following table in § 419.13(d).

<sup>2</sup> Within the range of 6.0 to 9.0.

(b) The limits set forth in paragraph (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.

(1) Size factor.

1,000 barrels of feedstock per stream day	Size factor
Less than 24.9 .....	0.73
25.0 to 49.9 .....	0.76
50.0 to 74.9 .....	0.83
75.0 to 99.9 .....	0.91
100.0 to 124.9 .....	0.99
125.0 to 149.9 .....	1.08
150.0 or greater .....	1.13

(2) Process factor.

Process configuration	Process factor
Less than 4.49 .....	0.73

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Process configuration	Process factor
4.5 to 5.49 .....	0.80
5.5 to 5.99 .....	0.91
6.0 to 6.49 .....	0.99
6.5 to 6.99 .....	1.08
7.0 to 7.49 .....	1.17
7.5 to 7.99 .....	1.28
8.0 to 8.49 .....	1.39
8.5 to 8.99 .....	1.51
9.0 to 9.49 .....	1.65
9.5 or greater .....	1.72

(3) See the comprehensive example in subpart D, § 419.42(b)(3).

(c) The provisions of § 419.12(c) apply to discharges of process wastewater pollutants attributable to 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 paragraph (b) of this section. Once-through cooling water may be discharged with a total organic carbon concentration not to exceed 5 mg/l.

(e) *Effluent limitations for contaminated runoff.* The following effluent limitations constitute the quantity and quality of pollutants or pollutant properties controlled by this paragraph and attributable to contaminated runoff, which may be discharged after the application of the best practicable control technology currently available by a point source subject to this subpart.

(1) If wastewater consists solely of contaminated runoff and is not commingled or treated with process wastewater, it may be discharged if it does not exceed 15 mg/l oil and grease and 110 mg/l total organic carbon (TOC) based upon an analysis of any single grab or composite sample.

(2) If contaminated runoff is commingled or treated with process wastewater, or if wastewater consisting solely of contaminated runoff which exceeds 15 mg/l oil and grease or 110 mg/l TOC is not commingled or treated with any other type of wastewater, the quantity of pollutants discharged shall not exceed the quantity determined by multiplying the flow of contaminated runoff as determined by the permit

writer times the concentrations listed in the following table:

Pollutant or pollutant property	BPT effluent limitations for contaminated runoff	
	Maximum for any 1 day	Average of daily values for 30 consecutive days shall not exceed
	Metric units (kilograms per 1,000 m <sup>3</sup> of flow)	
BOD <sub>5</sub> .....	48.	26.
TSS .....	33.	21.
COD <sup>1</sup> .....	360.	180.
Oil and grease .....	15.	8.
Phenolic compounds (4AAP) .....	0.35	0.17
Total chromium .....	0.73	0.43
Hexavalent chromium .....	0.062	0.028
pH .....	( <sup>2</sup> )	( <sup>2</sup> )
	English units (pounds per 1,000 gallons of flow)	
BOD <sub>5</sub> .....	0.40	0.22
TSS .....	0.28	0.18
COD <sup>1</sup> .....	3.0	1.5
Oil and grease .....	0.13	0.067
Phenolic compounds (4AAP) .....	0.0029	0.0014
Total chromium .....	0.0060	0.0035
Hexavalent chromium .....	0.00052	0.00023
pH .....	( <sup>2</sup> )	( <sup>2</sup> )

<sup>1</sup> 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 permitting authority may substitute TOC as a parameter in lieu of COD. A TOC effluent limitation shall be based on effluent data from the particular refinery which correlates TOC to BOD<sub>5</sub>. If in the judgment of the permitting authority, 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 for BOD<sub>5</sub>.

<sup>2</sup> Within the range of 6.0 to 9.0.

[47 FR 46446, Oct. 18, 1982, as amended at 50 FR 28522, 28523, July 12, 1985; 50 FR 32414, Aug. 12, 1985]

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

(a) Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable (BAT):