

**Environmental Protection Agency**

**§ 430.54**

**§ 430.53 Effluent limitations representing the degree of effluent reduction attainable by the application of the best conventional pollutant control technology (BCT).**

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best conventional pollutant control technology (BCT). The limitations shall be the same as those specified for conventional pollutants in § 430.52 of this subpart for the best practicable control technology currently available (BCT).

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

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).

(a)(1) The following effluent limitations apply to all dischargers in the calcium-, magnesium-, or sodium-based sulfite pulp segment:

**SUBPART E**

[Production of Calcium-, Magnesium-, or Sodium-based Sulfite Pulps]

Pollutant or pollutant property	BAT effluent limitations			
	Continuous dischargers		Non-continuous dischargers	
	Maximum for any 1 day	Monthly average	Maximum for any 1 day	Annual average
	kg/kg (or pounds per 1,000 lb) of product			
AOX .....	<ML <sup>a</sup>	( <sup>b</sup> )	<ML <sup>a</sup>	( <sup>b</sup> )
COD .....	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )

<sup>a</sup>“<ML” means less than the minimum level specified in § 430.01(i) for the particular pollutant.  
<sup>b</sup> This regulation does not specify this type of limitation for this pollutant; however, permitting authorities may do so as appropriate.  
<sup>c</sup> [Reserved]

(2)(i) The following effluent limitations apply to all dischargers in the ammonium-based sulfite pulp segment:

**SUBPART E—PRODUCTION OF AMMONIUM-BASED SULFITE PULPS**

Pollutant or pollutant property	BAT effluent limitations	
	Maximum for any 1 day	Monthly average
TCDD <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
TCDF <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
Chloroform <sup>a</sup> .....	( <sup>c</sup> )	( <sup>c</sup> )
Trichlorosyringol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
3,4,5-trichlorocatechol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
3,4,6-trichlorocatechol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
3,4,5-trichloroguaiacol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
3,4,6-trichloroguaiacol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
4,5,6-trichloroguaiacol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
2,4,5-trichlorophenol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
2,4,6-trichlorophenol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
Tetrachlorocatechol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
Tetrachloroguaiacol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
2,3,4,6-tetrachlorophenol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
Pentachlorophenol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )

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	Continuous dischargers		Non-continuous dischargers	
	Maximum for any 1 day	Monthly average	Maximum for any 1 day	Annual average
	kg/kg (or pounds per 1,000 lb) of product			
AOX .....	( <sup>d</sup> )	( <sup>d</sup> )	( <sup>d</sup> )	( <sup>d</sup> )
COD .....	( <sup>d</sup> )	( <sup>d</sup> )	( <sup>d</sup> )	( <sup>d</sup> )

<sup>a</sup> These limitations do not apply with respect to fiber lines that use a TCF bleaching process as disclosed by the discharger in its permit application under 40 CFR 122.21(g)(3) and certified under 40 CFR 122.22.  
<sup>b</sup> “<ML” means less than the minimum level specified in § 430.01(i) for the particular pollutant.  
<sup>c</sup> This regulation does not specify this type of limitation for this pollutant; however, permitting authorities may do so as appropriate.  
<sup>d</sup> [Reserved]

(ii) The following effluent limitations apply to all dischargers in the ammonium-based sulfite pulp segment with respect to each fiber line that uses exclusively TCF bleaching processes, as disclosed by the discharger in its NPDES permit application under 40 CFR 122.21(g)(3) and certified under 40 CFR 122.22:

SUBPART E—PRODUCTION OF AMMONIUM-BASED SULFITE PULPS

Pollutant or pollutant property	BAT effluent limitations (TCF)			
	Continuous dischargers		Non-continuous dischargers	
	Maximum for any 1 day	Monthly average	Maximum for any 1 day	Annual average
	kg/kg (or pounds per 1,000 lb) of product			
AOX .....	<ML <sup>a</sup>	( <sup>b</sup> )	<ML <sup>a</sup>	( <sup>b</sup> )
COD .....	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )

<sup>a</sup> “<ML” means less than the minimum level specified in § 430.01(i) for the particular pollutant.  
<sup>b</sup> This regulation does not specify this type of limitation for this pollutant; however, permitting authorities may do so as appropriate.  
<sup>c</sup> [Reserved]

(3)(i) The following effluent limitations apply to all dischargers in the specialty grade pulp segment:

SUBPART E—PRODUCTION OF SPECIALTY GRADE SULFITE PULPS

Pollutant or pollutant property	BAT effluent limitations	
	Maximum for any 1 day	Monthly Average
TCDD <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
TCDF <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
Chloroform <sup>a</sup> .....	( <sup>d</sup> )	( <sup>c</sup> )
Trichlorosyringol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
3,4,5-trichlorocatechol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
3,4,6-trichlorocatechol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
3,4,5-trichloroguaiacol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
3,4,6-trichloroguaiacol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
4,5,6-trichloroguaiacol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
2,4,5-trichlorophenol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
2,4,6-trichlorophenol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
Tetrachlorocatechol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
Tetrachloroguaiacol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
2,3,4,6-tetrachlorophenol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
Pentachlorophenol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )

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	Continuous dischargers		Non-continuous dischargers	
	Maximum for any 1 day	Monthly average	Maximum for any 1 day	Annual average
	kg/kg (or pounds per 1,000 lb) of product			
AOX .....	(d)	(d)	(d)	(d)
COD .....	(d)	(d)	(d)	(d)

<sup>a</sup> These limitations do not apply with respect to fiber lines that use a TCF bleaching process as disclosed by the discharger in its permit application under 40 CFR 122.21(g)(3) and certified under 40 CFR 122.22.  
<sup>b</sup> “<ML” means less than the minimum level specified in § 430.01(i) for the particular pollutant.  
<sup>c</sup> This regulation does not specify this type of limitation for this pollutant; however, permitting authorities may do so as appropriate.  
<sup>d</sup> [Reserved]

(ii) The following effluent limitations apply to dischargers in the specialty grade pulp segment with respect to each fiber line that uses exclusively TCF bleaching processes, as disclosed by the discharger in its NPDES permit application under 40 CFR 122.21(g)(3) and certified under 40 CFR 122.22:

SUBPART E—PRODUCTION OF SPECIALTY GRADE PULPS

Pollutant or pollutant property	BAT effluent limitations (TCF)			
	Continuous dischargers		Non-continuous dischargers	
	Maximum for any 1 day	Monthly average	Maximum for any 1 day	Annual average
	kg/kg (or pounds per 1,000 lb) of product			
AOX .....	<ML <sup>a</sup>	(b)	<ML <sup>a</sup>	(b)
COD .....	(c)	(c)	(c)	(c)

<sup>a</sup> “<ML” means less than the minimum level specified in § 430.01(i) for the particular pollutant.  
<sup>b</sup> This regulation does not specify this type of limitation for this pollutant; however, permitting authorities may do so as appropriate.  
<sup>c</sup> [Reserved]

(b) The following additional effluent limitations apply to each discharger subject to this section in accordance with the previous subcategorization scheme unless it certifies to the permitting authority that it is not using these compounds as biocides. Also, for non-continuous dischargers, concentration limitations (mg/l) shall apply. Concentration limitations will only apply to non-continuous dischargers:

SUBPART E

[Supplemental BAT effluent limitations]

Pollutant or pollutant property	Maximum for any 1 day	
	kg/kg (or pounds per 1,000 lb) of product	Milligrams/liter
Pentachlorophenol .....	0.00058exp(0.017x) .....	((0.011)(12.67)exp(0.017x))/y
Trichlorophenol .....	0.0036exp(0.017x) .....	((0.068)(12.67)exp(0.017x))/y

x = percent sulfite pulp in final product.  
y = wastewater discharged in kgal per ton of product.

(c) Pursuant to 40 CFR 122.44(i) and 122.45(h), a discharger must demonstrate compliance with the limitations in paragraphs (a)(2) or (a)(3) of this section, as applicable, by monitoring for all pollutants (except for AOX and COD) at the point where the wastewater containing those pollutants leaves the bleach plant. The permitting authority may impose effluent limitations and/or monitoring requirements on internal wastestreams for

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any other pollutants covered in this section as appropriate under 40 CFR 122.44(i) and 122.45(h).

performance standards (NSPS), as applicable.

**§ 430.55 New source performance standards (NSPS).**

(a) The following standards apply to each new source regardless of when it commenced discharge:

New sources subject to this subpart must achieve the following new source

**SUBPART E**  
[1982 NSPS]

Pollutant or pollutant property	Kg/kg (or pounds per 1,000 lb) of product		
	Continuous dischargers		Non-continuous dischargers (annual average)
	Maximum for any 1 day	Average of daily values for 30 consecutive days	
BOD5 .....	4.38exp(0.017x) ...	2.36exp(0.017x) .....	Average of daily values for 30 consecutive days divided by 1.91.
TSS .....	5.81exp(0.017x) ...	3.03exp(0.017x) .....	Average of daily values for 30 consecutive days divided by 1.90.
pH .....	(1) .....	(1) .....	(1)

x = percent sulfite pulp in final product

<sup>1</sup> Within the range of 5.0 to 9.0 at all times.

(b) The following standards apply with respect to each new source fiberline that commences discharge after June 15, 1998.

(1) The following standards apply to all new sources in the calcium-, magnesium-, or sodium-based sulfite pulp segment:

**SUBPART E**  
[Production of Calcium-, Magnesium-, or Sodium-based Sulfite Pulps]

Pollutant or pollutant property	NSPS			
	Continuous dischargers		Non-continuous dischargers	
	Maximum for any 1 day	Monthly average	Maximum for any 1 day	Annual average
	kg/kg (or pounds per 1,000 lb) of product			
AOX .....	<ML <sup>a</sup>	( <sup>b</sup> )	<ML <sup>a</sup>	( <sup>b</sup> )
COD .....	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )

<sup>a</sup> "<ML" means less than the minimum level specified in § 430.01(i) for the particular pollutant.  
<sup>b</sup> This regulation does not specify this type of limitation for this pollutant; however, permitting authorities may do so as appropriate.  
<sup>c</sup> [Reserved]

(2)(i) The following standards apply to all new sources in the ammonium-based sulfite pulp segment:

**SUBPART E—PRODUCTION OF AMMONIUM-BASED SULFITE PULPS**

Pollutant or pollutant property	NSPS	
	Maximum for any 1 day	Monthly average
TCDD <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
TCDF <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
Chloroform <sup>a</sup> .....	( <sup>d</sup> )	( <sup>d</sup> )
Trichlorosyringol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
3,4,5-trichlorocatechol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
3,4,6-trichlorocatechol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
3,4,5-trichloroguaiacol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )
3,4,6-trichloroguaiacol <sup>a</sup> .....	<ML <sup>b</sup>	( <sup>c</sup> )