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moisture content). Market pulp shall be measured in air-dry tons (10% moisture). Production shall be determined for each mill based upon past production practices, present trends, or committed growth.

(2) For AOX and chloroform limitations and standards specified in subparts B and E of this part: Production shall be defined as the annual unbleached pulp production entering the first stage of the bleach plant divided by the number of operating days during that year. Unbleached pulp production shall be measured in air-dried-metric tons (10% moisture) of brownstock pulp entering the bleach plant at the stage during which chlorine or chlorine-containing compounds are first applied to the pulp. In the case of bleach plants that use totally chlorine free bleaching processes, unbleached pulp production shall be measured in air-dried-metric tons (10% moisture) of brownstock pulp entering the first stage of the bleach plant from which wastewater is discharged. Production shall be determined for each mill based upon past production practices, present trends, or committed growth.

(o) *TCDD*. 2,3,7,8-tetrachlorodibenzop-dioxin.

(p) *TCDF*. 2,3,7,8-tetrachlorodibenzofuran.

(q) *Totally chlorine-free (TCF) bleaching*. Pulp bleaching operations that are performed without the use of chlorine,

sodium hypochlorite, calcium hypochlorite, chlorine dioxide, chlorine monoxide, or any other chlorine-containing compound.

(r) *Wet Barking*. Wet barking operations shall be defined to include hydraulic barking operations and wet drum barking operations which are those drum barking operations that use substantial quantities of water in either water sprays in the barking drums or in a partial submersion of the drums in a "tub" of water.

[63 FR 18635, Apr. 15, 1998; 63 FR 42239, Aug. 7, 1998]

§ 430.02 Monitoring requirements.

This section establishes minimum monitoring frequencies for certain pollutants. Where no monitoring frequency is specified in this section or where the duration of the minimum monitoring frequency has expired under paragraphs (b) through (e) of this section, the permit writer or pretreatment control authority shall determine the appropriate monitoring frequency in accordance with 40 CFR 122.44(i) or 40 CFR part 403, as applicable.

(a) *BAT, NSPS, PSES, and PSNS monitoring frequency for chlorinated organic pollutants*. The following monitoring frequencies apply to discharges subject to subpart B or subpart E of this part:

| CAS number | Pollutant                          | Minimum monitoring frequency |                  |
|------------|------------------------------------|------------------------------|------------------|
|            |                                    | Non-TCF <sup>a</sup>         | TCF <sup>b</sup> |
| 1198556    | Tetrachlorocatechol                | Monthly                      | (c)              |
| 2539175    | Tetrachloroguaiacol                | Monthly                      | (c)              |
| 2539266    | Trichlorosyringol                  | Monthly                      | (c)              |
| 2668248    | 4,5,6-trichloroguaiacol            | Monthly                      | (c)              |
| 32139723   | 3,4,6-trichlorocatechol            | Monthly                      | (c)              |
| 56961207   | 3,4,5-trichlorocatechol            | Monthly                      | (c)              |
| 57057837   | 3,4,5-trichloroguaiacol            | Monthly                      | (c)              |
| 58902      | 2,3,4,6-tetrachlorophenol          | Monthly                      | (c)              |
| 60712449   | 3,4,6-trichloroguaiacol            | Monthly                      | (c)              |
| 87865      | Pentachlorophenol <sup>d</sup>     | Monthly                      | (c)              |
| 88062      | 2,4,6-trichlorophenol <sup>d</sup> | Monthly                      | (c)              |
| 95954      | 2,4,5-trichlorophenol <sup>d</sup> | Monthly                      | (c)              |
| 1746016    | 2,3,7,8-TCDD                       | Monthly                      | (c)              |
| 51207319   | 2,3,7,8-TCDF                       | Monthly                      | (c)              |
| 67663      | chloroform <sup>e</sup>            | Weekly                       | (c)              |
| 59473040   | AOX <sup>f</sup>                   | Daily                        | None specified.  |

<sup>a</sup> Non-TCF: Pertains to any fiber line that does not use exclusively TCF bleaching processes.

<sup>b</sup> TCF: Pertains to any fiber line that uses exclusively TCF bleaching processes, as disclosed by the discharger in its permit application under 40 CFR 122.21(g)(3) and certified under 40 CFR 122.22 or, for indirect dischargers, as reported to the pretreatment control authority under 40 CFR 403.12 (b), (d), or (e).

<sup>c</sup> This regulation does not specify a limit for this pollutant for TCF bleaching processes.

<sup>d</sup> Monitoring frequency does not apply to this compound when used as a biocide. The permitting or pretreatment control authority must determine the appropriate monitoring frequency for this compound, when used as a biocide, under 40 CFR 122.44(i) or 40 CFR part 403, as applicable.

<sup>e</sup> This regulation does not specify a limit for this pollutant for Subpart E mills.

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<sup>1</sup>This regulation does not specify a limit for this pollutant for the ammonium-based or specialty grade sulfite pulp segments of Subpart E.

(b) *Duration of required monitoring for BAT, NSPS, PSES, and PSNS.* The monitoring frequencies specified in paragraph (a) of this section apply for the following time periods:

(1) For direct dischargers, a duration of 5 years commencing on the date the applicable limitations or standards from subpart B or subpart E of this part are first included in the discharger's NPDES permit;

(2) For existing indirect dischargers, until April 17, 2006;

(3) For new indirect dischargers, a duration of 5 years commencing on the

date the indirect discharger commences operation.

(c) *Reduced monitoring frequencies for bleach plant pollutants under the Voluntary Advanced Technology Incentives Program.* The following monitoring frequencies apply to mills enrolled in the Voluntary Advanced Technology Incentives Program established under subpart B of this part for a duration of 5 years commencing after achievement of the applicable BAT limitations specified in § 430.24(b)(3) or NSPS specified in § 430.25(c)(1) for the following pollutants, except as noted in footnote f:

| CAS number | Pollutant                          | Minimum monitoring frequency |                             |                  |
|------------|------------------------------------|------------------------------|-----------------------------|------------------|
|            |                                    | Non-ECF <sup>a</sup>         | Advanced ECF <sup>b,f</sup> | TCF <sup>c</sup> |
| 1198556    | Tetrachlorocatechol                | Monthly                      | Monthly                     | (d)              |
| 2539175    | Tetrachloroguaiacol                | Monthly                      | Monthly                     | (d)              |
| 2539266    | Trichlorosyringol                  | Monthly                      | Monthly                     | (d)              |
| 2668248    | 4,5,6-trichloroguaiacol            | Monthly                      | Monthly                     | (d)              |
| 32139723   | 3,4,6-trichlorocatechol            | Monthly                      | Monthly                     | (d)              |
| 56961207   | 3,4,5-trichlorocatechol            | Monthly                      | Monthly                     | (d)              |
| 57057837   | 3,4,5-trichloroguaiacol            | Monthly                      | Monthly                     | (d)              |
| 58902      | 2,3,4,6-tetrachlorophenol          | Monthly                      | Monthly                     | (d)              |
| 60712449   | 3,4,6-trichloroguaiacol            | Monthly                      | Monthly                     | (d)              |
| 87865      | Pentachlorophenol <sup>e</sup>     | Monthly                      | Monthly                     | (d)              |
| 88062      | 2,4,6-trichlorophenol <sup>e</sup> | Monthly                      | Monthly                     | (d)              |
| 95954      | 2,4,5-trichlorophenol <sup>e</sup> | Monthly                      | Monthly                     | (d)              |
| 1746016    | 2,3,7,8-TCDD                       | Monthly                      | Monthly                     | (d)              |
| 51207319   | 2,3,7,8-TCDF                       | Monthly                      | Monthly                     | (d)              |
| 67663      | Chloroform                         | Weekly                       | Monthly                     | (d)              |

<sup>a</sup>Non-ECF: Pertains to any fiber line that does not use exclusively ECF or TCF bleaching processes.

<sup>b</sup>Advanced ECF: Pertains to any fiber line that uses exclusively Advanced ECF bleaching processes, or exclusively ECF and TCF bleaching processes as disclosed by the discharger in its permit application under 40 CFR 122.21(g)(3) and certified under 40 CFR 122.22. Advanced ECF consists of the use of extended delignification or other technologies that achieve at least the Tier I performance levels specified in § 430.24(b)(4)(i).

<sup>c</sup>TCF: Pertains to any fiber line that uses exclusively TCF bleaching processes, as disclosed by the discharger in its permit application under 40 CFR 122.21(g)(3) and certified under 40 CFR 122.22.

<sup>d</sup>This regulation does not specify a limit for this pollutant for TCF bleaching processes.

<sup>e</sup>Monitoring frequency does not apply to this compound when used as a biocide. The permitting authority must determine the appropriate monitoring frequency for this compound, when used as a biocide, under 40 CFR 122.44(i).

<sup>f</sup>Monitoring requirements for these pollutants by mills certifying as Advanced ECF in their NPDES permit application or other communication to the permitting authority will be suspended after one year of monitoring. The permitting authority must determine the appropriate monitoring frequency for these pollutants beyond that time under 40 CFR 122.44(i).

(d) *Reduced monitoring frequencies for AOX under the Voluntary Advanced Technology Incentives Program (year one).* The following monitoring frequencies apply to direct dischargers enrolled in the Voluntary Advanced

Technology Incentives Program established under Subpart B of this part for a duration of one year after achievement of the applicable BAT limitations specified in § 430.24(b)(4)(i) or NSPS specified in § 430.25(c)(2):

| CAS number | Pollutant | Non-ECF, any tier <sup>a</sup> | Advanced ECF, any tier <sup>b</sup> | TCF, any tier <sup>c</sup> |
|------------|-----------|--------------------------------|-------------------------------------|----------------------------|
| 59473040   | AOX       | Daily                          | Weekly                              | None specified.            |

<sup>a</sup>Non-ECF: Pertains to any fiber line that does not use exclusively ECF or TCF bleaching processes.

<sup>b</sup>Advanced ECF: Pertains to any fiber line that uses exclusively Advanced ECF bleaching processes or exclusively ECF and TCF bleaching processes, as disclosed by the discharger in its permit application under 40 CFR 122.21(g)(3) and certified under 40 CFR 122.22. Advanced ECF consists of the use of extended delignification or other technologies that achieve at least the Tier I performance levels specified in § 430.24(b)(4)(i).

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<sup>c</sup> TCF: Pertains to any fiber line that uses exclusively TCF bleaching processes, as disclosed by the discharger in its permit application under 40 CFR 122.21(g)(3) and certified under 40 CFR 122.22.

(e) *Reduced monitoring frequencies for AOX under the Voluntary Advanced Technology Incentives Program (years two through five).* The following monitoring frequencies apply to mills enrolled in the Voluntary Advanced Technology Incentives Program estab-

lished under Subpart B of this part for a duration of four years starting one year after achievement of the applicable BAT limitations specified in § 430.24(b)(4)(i) or NSPS specified in § 430.25(c)(2):

| CAS number    | Pollutant | Non-ECF any tier <sup>a</sup> | Advanced ECF—tier I <sup>b</sup> | Advanced ECF—tier II <sup>b</sup> | Advanced ECF—tier III <sup>b</sup> | TCF—any tier <sup>c</sup> |
|---------------|-----------|-------------------------------|----------------------------------|-----------------------------------|------------------------------------|---------------------------|
| 59473040 .... | AOX ..... | Daily .....                   | Monthly .....                    | Quarterly .....                   | Annually .....                     | None specified.           |

<sup>a</sup> Non-ECF: Pertains to any fiber line that does not use exclusively ECF or TCF bleaching processes.  
<sup>b</sup> Advanced ECF: Pertains to any fiber line that uses exclusively Advanced ECF bleaching processes or exclusively ECF and TCF bleaching processes, as disclosed by the discharger in its permit application under 40 CFR 122.21(g)(3) and certified under 40 CFR 122.22. Advanced ECF consists of the use of extended delignification or other technologies that achieve at least the Tier I performance levels specified in § 430.24(b)(4)(i).  
<sup>c</sup> TCF: Pertains to any fiber line that uses exclusively TCF bleaching processes, as disclosed by the discharger in its permit application under 40 CFR 122.21(g)(3) and certified under 40 CFR 122.22.

**§ 430.03 Best management practices (BMPs) for spent pulping liquor, soap, and turpentine management, spill prevention, and control.**

(a) *Applicability.* This section applies to direct and indirect discharging pulp, paper, and paperboard mills with pulp production in subparts B (Bleached Papergrade Kraft and Soda) and E (Papergrade Sulfite).

(b) *Specialized definitions.* (1) *Action Level:* A daily pollutant loading that when exceeded triggers investigative or corrective action. Mills determine action levels by a statistical analysis of six months of daily measurements collected at the mill. For example, the lower action level may be the 75th percentile of the running seven-day averages (that value exceeded by 25 percent of the running seven-day averages) and the upper action level may be the 90th percentile of the running seven-day averages (that value exceeded by 10 percent of the running seven-day averages).

(2) *Equipment Items in Spent Pulping Liquor, Soap, and Turpentine Service:* Any process vessel, storage tank, pumping system, evaporator, heat exchanger, recovery furnace or boiler, pipeline, valve, fitting, or other device that contains, processes, transports, or comes into contact with spent pulping liquor, soap, or turpentine. Sometimes referred to as "equipment items."

(3) *Immediate Process Area:* The location at the mill where pulping, screen-

ing, knotting, pulp washing, pulping liquor concentration, pulping liquor processing, and chemical recovery facilities are located, generally the battery limits of the aforementioned processes. "Immediate process area" includes spent pulping liquor storage and spill control tanks located at the mill, whether or not they are located in the immediate process area.

(4) *Intentional Diversion:* The planned removal of spent pulping liquor, soap, or turpentine from equipment items in spent pulping liquor, soap, or turpentine service by the mill for any purpose including, but not limited to, maintenance, grade changes, or process shutdowns.

(5) *Mill:* The owner or operator of a direct or indirect discharging pulp, paper, or paperboard manufacturing facility subject to this section.

(6) *Senior Technical Manager:* The person designated by the mill manager to review the BMP Plan. The senior technical manager shall be the chief engineer at the mill, the manager of pulping and chemical recovery operations, or other such responsible person designated by the mill manager who has knowledge of and responsibility for pulping and chemical recovery operations.

(7) *Soap:* The product of reaction between the alkali in kraft pulping liquor and fatty acid portions of the wood, which precipitate out when water is