

**REGULATION 12
MISCELLANEOUS STANDARDS OF PERFORMANCE
RULE 1
KRAFT PULP MILLS**

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REGULATION 12
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RULE 1
KRAFT PULP MILLS

12-1-100 GENERAL

12-1-101 Description: This Rule limits the emission of total reduced sulfur (TRS) from operations at kraft pulp mills. Meeting the limitations of this Rule shall not exempt the operation of a kraft pulp mill from other requirements of the District or California law.

(Amended July 16, 1980)

12-1-102 Exemptions: The APCO will not consider periods of excess emissions reported under subsection 12-1-402.1 to be indicative of a violation provided that:

102.1 The TRS emissions do not exceed the allowable limits from recovery furnaces more than 1% of the total number of continuous 12-hour periods of operation possible in any calendar quarter, (excluding periods of shutdown, startup or malfunctions and periods when the facility is not operating), and

102.2 The APCO determines that the affected facility, including air pollution control equipment, is maintained and operating in a manner which is consistent with good air pollution control practice for minimizing emissions during periods of excess emissions.

(Added July 16, 1980)

12-1-200 DEFINITIONS

12-1-201 Digester System: Each continuous digester or each batch digester used for cooking of wood in white liquor, and associated chip steamer(s) below tank(s), flash tanks(s) and condenser(s).

(Added July 16, 1980)

12-1-202 Kraft Pulp Mill: Any stationary source which produces pulp from wood by cooking (digesting) wood chips in a water solution of sodium hydroxide and sodium sulfide (white liquor) at high temperature and pressure. Regeneration of the cooking chemicals through a recovery process is considered part of the kraft pulp mill.

(Amended July 16, 1980)

12-1-203 Kraft Recovery Furnace: A furnace used to recover pulping chemicals consisting primarily of sodium and sulfur compounds by burning black liquor.

(Amended July 16, 1980)

12-1-204 Lime Kiln: A unit used to calcine lime mud, which consists primarily of calcium carbonate, into quick lime which is calcium oxide.

(Added July 16, 1980)

12-1-205 Multiple Effect Evaporator System: The multiple-effect evaporator(s) and associated condenser(s) and hotwell(s) used to concentrate the spent cooking liquid (black liquor) that is separated from the pulp.

(Added July 16, 1980)

12-1-206 Smelt Dissolving Tank: A vessel used for dissolving the smelt collected from the recovery furnace.

(Added July 16, 1980)

12-1-207 Total Reduced Sulfur (TRS): The sum of sulfur compounds hydrogen sulfide, methyl mercaptan, dimethyl sulfide are dimethyl disulfide, released during kraft pulping operations.

(Amended July 16, 1980)

12-1-300 STANDARDS

12-1-301 Discharge From Kraft Recovery Furnaces: A person shall not discharge from any kraft recovery furnace TRS in amounts exceeding 15 ppm (dry) as an average over the hours of operation in any operating day, or in amounts exceeding 40 ppm (dry) for more than 60 cumulative minutes in any operating day; or from all kraft recovery furnaces TRS in amounts exceeding 150 g per metric ton (0.3 lbs. per ton) of air dried, unbleached kraft pulp produced during an operating day.

- 12-1-302 Discharges From Smelt Dissolving Tanks:** A person shall not discharge from any smelt dissolving tank TRS exceeding .0084 g/kg (0.0168 lb/ton) black liquor solids (dry weight) averaged over a 12-hour period. (Added July 16, 1980)
- 12-1-303 Discharges From Lime Kilns:** A person shall not discharge from any lime kiln TRS in amounts exceeding 40 ppm (dry) averaged over any period of 50 consecutive minutes in any operating day; or TRS in amounts exceeding 75 g per metric ton (.15 lbs. per ton) of air-dried unbleached kraft pulp produced during an operating day.
- 303.1 Effective July 1, 1983, a person shall not discharge from any lime kiln TRS exceeding 20 ppm (dry) corrected to 10% oxygen averaged over a twelve-hour period. (Amended July 16, 1980)
- 12-1-304 Discharges From Digester Systems and Multiple Effect Evaporator Systems:** A person shall not discharge from any digester system or multiple effect evaporator system TRS in excess of 5 ppm on a dry basis, averaged over a 12-hour period, unless the following conditions are met:
- 304.1 The gases are combusted in a lime kiln subject to the provisions of Section 12-1-303 of this rule. (Added July 16, 1980)
- 12-1-305 Discharges From Other Sources:** A person shall not discharge from any sources other than those specified in Sections 12-1-301 through 12-1-304 TRS exceeding 15 ppm (dry) averaged over a period of 30 consecutive minutes (Amended July 16, 1980)

12-1-400 ADMINISTRATIVE REQUIREMENTS

12-1-401 Schedule of Compliance for Lime Kilns:

- 401.1 By January 1, 1981, submit to the APCO a final control plan describing the steps and time schedule to be followed to achieve compliance with subsection 12-1-301.1
- 401.2 By July 1, 1981, submit an application to the APCO for authority to construct.
- 401.3 By January 1, 1983, complete on-site construction or installation of emission control equipment.
- 401.4 By July 1, 1983, be in final compliance with subsection 12-1-302.1. (Added July 16, 1980)

12-1-402 Reports of Excessive Emissions: For the purpose of reports required, the procedure will be as follows:

- 402.1 Emissions From Recovery Furnaces: TRS concentrations above 15 ppm by volume from straight recovery furnaces averaged over an operating day.
- 402.2 Emissions From Lime Kilns: All 60 minute periods during which TRS concentrations exceed 40 ppm, and all periods during which TRS emissions exceed 0.15 lbs. per ton of pulp produced. After July 1, 1983, only TRS concentrations which exceed 20 ppm averaged over an operating day will be reported. (Added July 16, 1980)

12-1-500 MONITORING AND RECORDS

12-1-501 Monitoring: The person responsible for emissions from any kraft pulp mill shall provide, install, maintain and continuously operate analytical instruments approved by the APCO to monitor TRS emissions from each kraft recovery furnace and each lime kiln.

12-1-502 Record Maintenance for Two Years: Monitoring records of the equipment required by Section 12-1-501 shall be kept for a period of two years and shall be made available to the APCO upon request. (Added July 16, 1980)

12-1-503 Monthly Summary: The persons responsible for emissions being monitored pursuant to Section 12-1-501 shall provide in such form as prescribed by the APCO a summary of data obtained during each calendar month, as specified in the Manual of Procedures (Added July 16, 1980)

12-1-600 MANUAL OF PROCEDURES

12-1-601 Testing: Emissions shall be tested according to methods outlined in the Manual of Procedures (Added July 16, 1980)