

TRANSMITTAL OF RULES ADOPTED

FROM: State Air Pollution Control Board
(Name of Agency)

TO: CODE REVISER
LEGISLATIVE BLDG (Southwest Corner, Ground Floor)
Olympia 98501

The enclosed Permanent rules , being order No. 8
Emergency rules

relating to (Name of rules or description of subject matter)

Chapter 18-36 WAC establishing rules and regulations assuming state jurisdiction over emissions from kraft pulping mills. This chapter specifically sets emission standards, adopts compliance schedules, monitoring and reporting standards, provides for notices of construction and submission of plans, and provides for special studies.

(ALTERNATIVE A. Use only for adoption of permanent rules)

pursuant to Notice No. 2317 ① filed with the code reviser on 5-14-69 ② were regularly adopted as permanent rules of this agency at Seattle, Washington on 6-17-69 and are herewith filed in the office of the code reviser pursuant to chapter 34.04 RCW. The effective date of such rules shall be _____ ③

(ALTERNATIVE B. Use only for adoption of emergency rules)

pursuant to its finding that the immediate adoption of these rules is necessary for the preservation of the public health, safety, or general welfare and that observance of the requirements of notice and opportunity to present views on the proposed action would be contrary to the public interest, were regularly adopted as emergency rules of this agency at _____ on _____ and are herewith filed in the office of the code reviser pursuant to chapter 34.04 RCW.

Dated this 17th day of June 1969.

STATE OF WASHINGTON
FILED
JUN 18 1969
CODE REVISER'S OFFICE
KET #2459 FILE # 1

Washington State Air Pollution Control Board
(AGENCY)

Wallace Lane M.D.
By Wallace Lane, M.D.

Chairman

Title

- ① NOTICE NUMBER AS APPEARS ON THE COPY OF NOTICE RETURNED TO YOU BY REVISER'S OFFICE (IF PROCEEDINGS WERE CONTINUED, USE NO. OF LAST NOTICE)
- ② STAMPED DATE AS APPEARS ON THE COPY OF NOTICE RETURNED TO YOU BY REVISER'S OFFICE (IF PROCEEDINGS WERE CONTINUED, USE DATE OF LAST NOTICE)
- ③ UNLESS A LATER DATE IS SPECIFIED IN THIS ORDER OR IS PRESCRIBED IN ANOTHER STATUTE, RULES ARE EFFECTIVE 30 DAYS AFTER FILING: RCW 34.04.040. LEAVE THIS SPACE BLANK EXCEPT IN SUCH SPECIAL CASES.

STATE OF WASHINGTON
STATE AIR POLLUTION CONTROL BOARD

PURSUANT to the authority vested in it by RCW 70.94.395 (Sec. 39, chapter 168, Laws of 1969, 1st Ex. Sess.), and pursuant to chapter 34.04 RCW; and

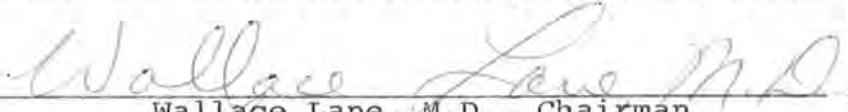
WHEREAS, the State Air Pollution Control Board has found, after public hearing, upon due notice, that emissions from kraft pulp mills should be regulated on a state-wide basis in the public interest and for the protection of the welfare of the citizens of this state:

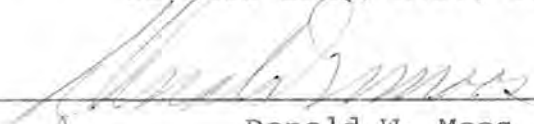
NOW THEREFORE, THE STATE AIR POLLUTION CONTROL BOARD HEREBY ADOPTS as permanent rules and regulations chapter 18-36 WAC establishing rules and regulations assuming state jurisdiction over emissions from kraft pulping mills. This chapter specifically sets emission standards, adopts compliance schedules, monitoring and reporting standards, provides for notices of construction and submission of plans, and provides for special studies.

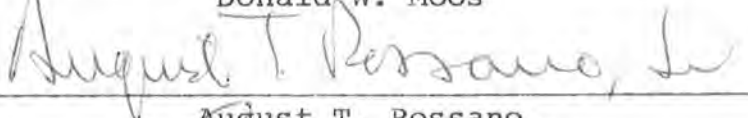
THIS order, after being first recorded in the order register of this agency, shall be forwarded to the Code Reviser for filing pursuant to chapter 34.04 RCW and chapter 1-12 WAC.

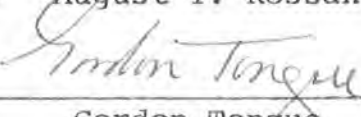
DONE in the City of Seattle, County of King, State of Washington, this seventeenth day of June, 1969.

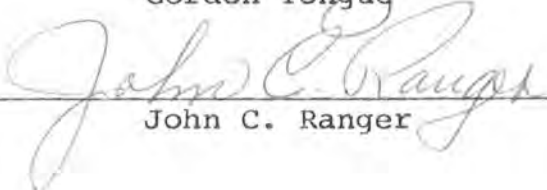
WASHINGTON STATE AIR POLLUTION CONTROL BOARD


Wallace Lane, M.D., Chairman


Donald W. Moos


August T. Rossano


Gordon Tongue


John C. Ranger

Harvey S. Poll

Harvey S. Poll

Frank Roberts

Frank Roberts

Glen A. Yake

Glen A. Yake

John W. Judy

John W. Judy

Findings of the
WASHINGTON STATE AIR POLLUTION CONTROL BOARD

WHEREAS Section 39, chapter 168, Laws of 1969, 1st Ex. Sess. authorizes the Washington State Air Pollution Control Board to assume state-wide jurisdiction over emissions from a particular type or class of air contaminant source; and

WHEREAS, the Washington State Air Pollution Control Board, upon due notice, has held a public hearing pursuant to Section 39, chapter 168, Laws of 1969, 1st Ex. Sess.; and


WHEREAS, the State Air Pollution Control Board has heard testimony concerning the assumption of state-wide jurisdiction over emissions from kraft pulp mills; and

WHEREAS, the State Air Pollution Control Board is prepared to adopt and enforce rules and regulations for the control of emissions of kraft pulp mills:

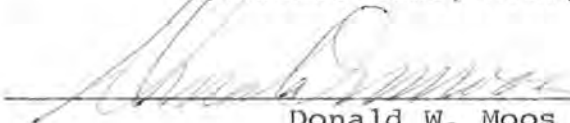
THE STATE AIR POLLUTION CONTROL BOARD Now finds that the regulation of kraft pulp mills on a state-wide basis is in the public interest and necessary for the protection of the welfare of the citizens of this state;

NOW THEREFORE, IT IS HEREBY ORDERED, ADJUDGED AND DECREED That the Washington State Air Pollution Control Board assume state-wide jurisdiction over all kraft mills within the state of Washington by adopting and enforcing rules and regulations to control the emissions from such kraft pulp mills.

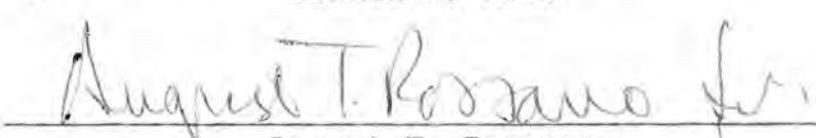
WASHINGTON STATE AIR POLLUTION CONTROL BOARD



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Chapter 18-36

KRAFT PULPING MILLS

NEW

WAC 18-36-010 STATEMENT OF POLICY AND PURPOSE. (1) These rules are enacted under the provisions of the 1969 amendments to the Washington Clean Air Act (RCW 70.94.395) to assume state jurisdiction over emissions from kraft pulping mills in order to provide for the systematic reduction and control of air pollution in the kraft pulping industry.

(2) Recent technological developments have enhanced the degree of malodorous emission control possible for the kraft pulping process. It is hereby declared to be the policy of the state board to:

(a) Require, in accordance with a specific program and timetable for each operating mill, the highest and best practicable treatment and control of emissions from kraft mills through the utilization of technically feasible equipment, devices and procedures.

(b) Require effective monitoring and reporting of emissions and reporting of other data pertinent to air quality or emissions. The state board will use these data in conjunction with ambient air data and observation of conditions in the surrounding area to develop and revise emission standards and air quality standards, and to determine compliance therewith.

(c) Encourage and assist the kraft pulping industry to conduct a research and technological development program designed to progressively reduce kraft mill emissions, in accordance with a definite program, including specified objectives and time schedules.

(d) Establish standards deemed to be technically feasible and reasonably attainable, with the intent of revising the standards as new information and better technology are developed.

NEW

WAC 18-36-020 DEFINITIONS. (1) "Air quality standard" means an established concentration, exposure time and frequency of occurrence of a contaminant or multiple contaminants in the ambient air which shall not be exceeded.

(2) "Continual monitoring" means sampling and analysis, in a continuous or timed sequence, using techniques which will adequately reflect actual emission levels or concentrations on a continuous basis.

(3) "Emission" means a release into the outdoor atmosphere of air contaminants.

(4) "Emission standard" means a limitation on the release of a contaminant or multiple contaminants to the ambient air.

(5) "Equivalent air-dried kraft pulp" means pulp production which produces a loading of black liquor solids to the recovery furnace equivalent to that loading produced with kraft pulp.

(6) "Kraft mill" or "mill" means any pulping process which uses, for a cooking liquor, an alkaline sulfide solution containing sodium hydroxide and sodium sulfide.

(7) "Non-condensibles" means gases and vapors from the digestion and evaporation processes of a mill that are not condensed with the equipment used in those processes.

(8) "Other sources" means sources of odorous sulfur emissions including, but not limited to, vents from lime kilns, knotters, brown stock pulp washers, multiple-effect evaporators, digesters, blow tanks, smelt tanks, blow heat accumulators, black liquor storage tanks, black liquor oxidation systems, tall oil recovery operations, and any operation connected with the handling of condensate liquids within the mill or any vent which may be a significant contributor of odorous gases.

(9) "Particulate matter" means a small, discrete mass of solid or liquid matter but not including uncombined water.

(10) "p.p.m. (part per million)" means parts of a contaminant per million parts of gas by volume.

(11) "Recovery furnace stack" means the stack from which the products of combustion from the recovery furnace are emitted to the ambient air.

(12) "State board" means the Washington state air pollution control board.

(13) "Total reduced sulfur, (TRS)" means hydrogen sulfide, mercaptans, dimethyl sulfide, dimethyl disulfide, and any other organic sulfides present.

NEW

WAC 18-36-030 EMISSION STANDARDS. (1) All emission standards in this section are based on average daily emissions. These limitations do not preclude a requirement to install the highest and best practicable treatment and control available.

(2) The emission of TRS from all recovery furnace stacks shall not exceed two pounds of sulfur per ton of equivalent air-dried kraft pulp or, from each recovery furnace stack, seventy p.p.m. expressed as hydrogen sulfide on a dry basis, whichever is the more restrictive.

(3) The emission of TRS from all recovery furnace stacks shall be further reduced so as not to exceed one-half pound of sulfur per equivalent ton of air-dried kraft pulp, or from each recovery furnace stack, seventeen and one-half p.p.m., expressed as hydrogen sulfide on a dry gas basis, whichever is the more restrictive, or such other limit of TRS that proves to be reasonably attainable utilizing the latest in design of recovery furnace equipment, controls, and procedures. All kraft mills shall be in compliance with this requirement by not later than July, 1975.

(4) Non-condensibles from digesters and multiple-effect evaporators shall be treated to reduce the emission of TRS equal to the reduction achieved by thermal oxidation in a lime kiln. All kraft mills shall be in compliance with this requirement by not later than July, 1972.

(5) The emission of particulate matter from all recovery furnace stacks shall not exceed four pounds per ton of equivalent air-dried kraft pulp. Where necessary, particulate emission limitations may be set lower by the state board. All kraft mills shall be in compliance with this requirement by not later than July, 1975.

(6) The emission of particulate matter from all lime kilns shall not exceed one pound per ton of equivalent air-dried kraft pulp. All kraft mills shall be in compliance with this requirement by not later than July, 1975.

(7) The emission of particulate material from all smelt tanks shall not exceed one-half pound per ton of equivalent air-dried kraft pulp. All kraft mills shall be in compliance with this requirement by not later than July, 1972.

(8) Kraft mills producing less than two-hundred air-dried tons of pulp per day shall be deemed to be in compliance if the emissions are not greater than the emissions allowed for a two-hundred air-dried tons of pulp per day plant.

NEW

WAC 18-36-040 COMPLIANCE SCHEDULE. A proposed schedule of compliance with WAC 18-36-030(2) through (7) shall be submitted by each mill to the state board not later than one hundred and eighty days after the effective date of this regulation. After receipt of the proposed schedule, the state board will establish pursuant to chapter 34.04 RCW, in cooperation with mill representatives, an approved compliance schedule for each mill within the time limitations established in WAC 18-36-030.

NEW WAC 18-36-050 PUBLIC HEARING. A public hearing shall be held by the state board not later than July, 1973, to review current technology and adequacy of the above standards and to make revisions as necessary.

NEW WAC 18-36-060 MORE RESTRICTIVE EMISSION STANDARDS. The state board may establish more restrictive emission standards for new mills or for mills expanding existing facilities. Data documenting projected emissions and changes in, or affects upon, air quality, that would result from the construction or expansion, must be submitted to the state board together with plans and specifications in accordance with the provisions of WAC 18-36-080.

NEW WAC 18-36-070 MONITORING AND REPORTING. (1) Every kraft mill in the state shall install equipment for the continual monitoring of TRS.

(a) The monitoring equipment shall be capable of determining compliance with these standards and shall be capable of continual sampling and recording of the concentrations of TRS contaminants during a time interval not greater than thirty minutes.

(b) The sources monitored shall include, but are not limited to, the recovery furnace stacks and the lime kiln stacks.

(2) Each mill shall sample the recovery furnace, lime kiln, and smelt tank for particulate emissions on a regularly scheduled basis in accordance with its approved sampling program.

(3) Each mill shall submit within sixty days after effective date of this regulation a detailed monitoring program and time schedule for approval by the state board. The equipment shall be ordered within thirty days after the monitoring program has been approved in writing by the state board. The equipment shall be placed in effective operation in accordance with the approved program within ninety days after delivery.

(4) Unless otherwise authorized by the state board, data shall be reported by each mill at the end of each calendar month, as follows:

(a) Daily average emission of TRS gases expressed in parts per million on a dry gas basis for each source included in the approved monitoring program.

(b) The number of hours each day that the emission of TRS gases from each recovery furnace stack exceeds seventy p.p.m. dry and the maximum concentration of TRS measured each day.

(c) Emission of TRS gases in pounds of sulfur per equivalent air-dried ton of pulp processed in the kraft cycle on a monthly basis for each source included in the approved monitoring program.

(d) Emission of particulates in pounds per equivalent air-dried ton of pulp produced in the kraft cycle based upon sampling conducted in accordance with the approved monitoring program.

(e) Average daily equivalent kraft pulp production in air-dried tons.

(f) Other emission data as specified in the approved monitoring program.

(5) Each kraft mill shall furnish, upon request of the state board, such other pertinent data as the board may require to evaluate the mill's emission control program. Each mill shall immediately report abnormal mill operations which result in increased emissions of air contaminants, following procedures set forth in the approved monitoring program.

NEW WAC 18-36-080 NOTICE OF CONSTRUCTION AND SUBMISSION OF PLANS AND SPECIFICATIONS. (1) Prior to the construction,

installation, or establishment of a kraft mill, a notice of construction shall be submitted to the state board. Within thirty days of its receipt of such notice, the state board may require the submission of plans, specifications, and other information as it deems necessary, in order to determine whether the proposed construction, installation or establishment will be in accordance with applicable regulations. If, within thirty days of the receipt of plans, specifications, or other information required pursuant to this regulation, the state board determines that the proposed construction, installation, or establishment will not be in accord with applicable regulations, it shall issue an order for the prevention of construction, installation, or establishment of the kraft mill. Failure to issue such an order within the time prescribed herein shall be deemed a determination that the construction, installation, or establishment may proceed, provided that it is in accordance with the plans, specifications and other information required to be submitted.

(2) Addition to, or enlargement or replacement of a kraft mill or any major alteration therein shall be construed as construction, installation, or establishment.

NEW

WAC 18-36-090 SPECIAL STUDIES. (1) Special studies, having prior approval of the state board, shall be conducted at each mill, and the results thereof submitted to the state board by July, 1971. The studies shall cover the following areas:

(a) Evaluation of the emissions of TRS from all other sources within the mill.

(b) Evaluation of the emissions of sulfur dioxide from all sources within the mill, including but not necessarily limited to, the recovery furnace, lime kiln, and power boilers.

(c) Evaluation of water vapor emissions from all sources within the mill.

(2) The state board may require such additional special studies relevant to air pollution and establish completion dates as it determines necessary.

NEW

WAC 18-36-100 EXEMPTION. These regulations do not apply to open burning and power boiler operations conducted at the site of an ancillary to the kraft pulp mill operation.