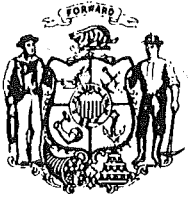


CR 85-160



State of Wisconsin

DEPARTMENT OF NATURAL RESOURCES

Carroll D. Besadny
Secretary

BOX 7921
MADISON, WISCONSIN 53707

STATE OF WISCONSIN)
DEPARTMENT OF NATURAL RESOURCES)

ss _____

RECEIVED

MAY 5 1986
11:28 am
Revisor of Statutes
Bureau

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETINGS:

I, Bruce B. Braun, Deputy Secretary of the Department of Natural Resources and custodian of the official records of said Department, do hereby certify that the annexed copy of Natural Resources Board Order No. A-30-85a was duly approved and adopted by this Department on February 27, 1986. I further certify that said copy has been compared by me with the original on file in this Department and that the same is a true copy thereof, and of the whole of such original.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the official seal of the Department at General Executive Facility #2 in the City of Madison, this 29th day of April, 1986.

Bruce B. Braun
Bruce B. Braun, Deputy Secretary

(SEAL)

7973H

ORDER OF THE STATE OF WISCONSIN
NATURAL RESOURCES BOARD
CREATING RULES

.....
IN THE MATTER of creating ss. NR 419.02(6), .
421.02(1m), (2e), (2s), (4e), (4s), (9m), .
(10e), (10s), (11e), and (11s), 421.05, .
421.06, 424.02(1) and 424.04 of the Wisconsin .
Administrative Code pertaining to the .
establishment of emission limitations for .
certain sources of volatile organic compounds .
in the counties of Kenosha, Milwaukee, Ozaukee .
Racine, Washington and Waukesha. .
.....

A-30-85a

Analysis Prepared by Department of Natural Resources

These rules establish emission limitations for three categories of sources of volatile organic compounds in the counties of Kenosha, Milwaukee, Ozaukee, Racine, Washington and Waukesha. These six counties constitute the southeastern Wisconsin ozone nonattainment area. Volatile organic compounds are major precursors to ozone formation.

These rules were developed to meet requirements in the Federal Clean Air Act and are committed to in the Wisconsin 1982 Ozone State Implementation Plan.

These rules require three categories of sources (synthetic resin manufacturing, coatings manufacturing, and aerosol can filling operations) to meet specific emission control requirements or emission limitations for volatile organic compounds to help gain attainment of the ambient ozone standard in the southeastern Wisconsin ozone nonattainment area by the regulatory deadline date of December 31, 1987. The sources must meet the emission control requirements or emission limitations through the implementation of reasonably available control technique measures according to compliance schedules set out in the rules. Final compliance with these rules would be required not later than December 31, 1987, the deadline for attaining the ozone standard in southeastern Wisconsin. Variances from the emission limits or compliance schedules of these rules may be sought by a source under s. NR 436.05, Wis. Adm. Code, if compliance is infeasible.

Pursuant to the authority vested in the State of Wisconsin Natural Resources Board by ss. 144.31, 144.38 and 227.014(2)(a), Stats., the State of Wisconsin Natural Resources Board hereby creates rules interpreting s. 144.31(1)(f), Stats., and revising the State Implementation Plan (SIP) developed under that provision, as follows:

SECTION 1. NR 419.02(6) is created to read:

NR 419.02(6) "Vent" means any port or opening which allows gases to be discharged to the atmosphere when leaving a reactor or other equipment.

SECTION 2. NR 421.02(1m), (2e), (2s), (4e), (4s), (9m), (10e), (10s), (11e), and (11s) are created to read:

NR 421.02(1m) "Blending tank" means any vessel in which resin, coating or other materials, or any combination thereof, are added to produce product blend.

(2e) "Coatings manufacturing facility" means any facility which mixes, blends or compounds paints, varnishes, lacquers, enamels, shellacs or sealers, and which is classified under standard industrial classification code 2851, as determined in s. NR 407.04(1).

(2s) "Completed resin" is any resin which has completed its processing and is available for use in the basic components of plastics or as a component of surface coating formulations.

(4e) "Grinding mill" means any mill with cylindrical chambers containing grinding media such as balls, pebbles, or sand which grind and disperse coating solids.

(4s) "High speed dispersion mill" means any mixer with one or more blades that rotate at high speed in order to disperse coating solids.

(9m) "Reaction tank" means any piece of equipment in which organic or other materials are reacted to produce a resin. A reaction tank may include a stripping column, condensers, and a water separator, which return the evaporated solvent to the reaction vessel.

(10e) "Resin" means a solid or semi-solid, water-insoluble, organic material with little or no tendency to crystallize and which is used as the basic components of plastics or as a component of surface-coating formulations.

(10s) "Roller mill" means any mill with horizontal rollers that grind and disperse coating solids.

(11e) "Synthetic resin manufacturing facility" means any facility which reacts organic compounds to produce a synthetic resin and which is classified under standard industrial classification code 2821, as determined in s. NR 407.04(1).

(11s) "Thinning tank" means any vessel in which resin, coating, or other products are combined with solvents to thin the product.

SECTION 3. NR 421.05 is created to read:

NR 421.05 SYNTHETIC RESIN MANUFACTURING (1) APPLICABILITY. Effective [the effective date of this rule], this section applies to reaction tanks, thinning tanks and blending tanks and other process vessels used in any synthetic resin manufacturing facility which has total emissions of VOCs from the facility of more than 100 tons per year, and which is located within the counties of Kenosha, Milwaukee, Ozaukee, Racine, Washington or Waukesha.

(2) EMISSION CONTROL REQUIREMENTS. The owner or operator of a synthetic resin manufacturing facility shall:

(a) Equip each vent from reaction tanks, and all blending tanks and thinning tanks with an emission control system which includes the following:

1. A surface condenser, or equally effective control system as approved by the department, and a vapor recovery or control system that reduces emissions from the surface condenser or equally effective control system by 85%, or

2. An equivalent system or approach demonstrate to reliably control emissions by not less than 90% as approved by the department.

(b) If a surface condenser is used, the condenser outlet gas temperature may not exceed 32°C (90°F).

(c) Enclose all centrifuges, rotary vacuum filters, and any other filters having an exposed liquid surface, where the liquid contains VOCs;

(d) Install covers on all in-process tanks that contain a VOC at any time. Covers shall be closed except for necessary operator access during production, sampling, maintenance or inspection;

(e) Repair all visually detectable leaks of liquid VOCs the first time equipment is off-line for a period long enough to complete the repair; and

(f) Document to the department all repairs of visually detectable leaks of liquid VOCs for each calendar quarter. This documentation is to include a description of the equipment that leaked, date of detection, date of repair, dates of follow-up inspection, and an explanation of what caused the leak. This documentation is to be submitted to the department within one month after the close of the calendar quarter during which the leaks were detected and repaired.

(3) COMPLIANCE REQUIREMENTS AND SCHEDULES. The owner or operator of a synthetic resin manufacturing facility shall comply with the following requirements:

(a) The owner or operator of a synthetic resin manufacturing facility which is in compliance with the emission control requirements and emission limitations of this section shall certify compliance to the satisfaction of the department within 90 days after [the effective date of this rule].

(b) The owner or operator of a synthetic resin manufacturing facility which commenced construction or commenced modification on or after [the effective date of this rule] shall meet the emission control requirements of

this section upon startup unless the owner or operator demonstrates to the satisfaction of the department that compliance upon startup would be technologically infeasible. Such sources shall instead meet a department specified compliance schedule which provides for compliance with the emission control requirements of this section as soon as practicable but in no event later than the time period allowed for achieving final compliance under par. (c).

(c) The owner or operator of a synthetic resin manufacturing facility which proposes to comply with the requirements of this section by modification of existing processing or emission control equipment may not exceed the deadlines specified in the following increments of progress and final compliance date, as measured from [the effective date of this rule]:

1. Submit final plans to the department for achieving compliance within 5 months.
2. Award contracts for equipment modifications or issue orders for the purchase of component parts to accomplish equipment modifications within 7 months.
3. Commence construction or installation of equipment modifications within 10 months.
4. Complete construction or installation of equipment modifications within 16 months.
5. Achieve final compliance not later than December 31, 1987.

SECTION 4. NR 421.06 is created to read:

NR 421.06 COATINGS MANUFACTURING. (1) APPLICABILITY. Effective [the effective date of this rule], this section applies to pigment dispersion chambers, thinning tanks, tinting, straining, blending tanks and other process

vessels used in any coatings manufacturing facility which has total emissions of VOCs from the facility of more than 100 tons per year, and which is located within the counties of Kenosha, Milwaukee, Ozaukee, Racine, Washington, or Waukesha.

(2) EMISSION CONTROL REQUIREMENTS. The owner or operator of a coatings manufacturing facility shall:

(a) Keep all portable mixing vats covered with lids, except to add ingredients or to take samples. The lids:

1. Shall extend at least 1/2 inch beyond the outer rim of the vat or be attached to the rim of the vat;

2. Shall be maintained in good condition such that, when in place, they maintain contact with the rim for at least 90% of the circumference of the rim of the vat; and

3. May have a slit to allow clearance for insertion of a mixer shaft. The slit shall be covered after insertion of the mixer, except to allow safe clearance for the mixer shaft.

(b) Keep all stationary vats covered, except to add ingredients or take samples;

(c) Clean all portable mixing vats, stationary vats, high speed dispersion mills, grinding mills, and roller mills in a way which minimizes the emissions of VOCs into the atmosphere and which is approved by the department;

(d) Equip any grinding mill installed after [the effective date of this rule] with fully enclosed screens;

(e) Repair all visually detectable leaks of liquid VOCs the first time equipment is off-line for a period long enough to complete the repair; and

(f) Document to the department all repairs of visually detectable leaks of liquid VOCs for each calendar quarter. This documentation is to include a

description of the equipment that caused the leak, date of detection, date of repair, dates of follow-up inspection, and an explanation of what caused the leak. This documentation is to be submitted to the department within one month after the close of the calendar quarter during which the leaks were detected and repaired.

(3) COMPLIANCE REQUIREMENTS AND SCHEDULES. The owner or operator of a coatings manufacturing facility shall comply with the following requirements:

(a) The owner or operator of a coatings manufacturing facility which is in compliance with the emission control requirements of this section shall certify compliance to the satisfaction of the department within 90 days after [the effective date of this rule].

(b) The owner or operator of a coatings manufacturing facility on which construction or modification commenced on or after [the effective date of this rule] shall meet the emission control requirements of this section upon startup unless the owner or operator demonstrates to the satisfaction of the department that compliance upon startup would be technologically infeasible. Such sources shall instead meet a department specified compliance schedule which provides for compliance with the emission control requirements of this section as soon as practicable but in no event later than the time period allowed for achieving final compliance under par. (c).

(c) The owner or operator of a coatings manufacturing facility which proposes to comply with the requirements of this section by modification of existing processing or emission control equipment may not exceed the deadlines specified in the following increments of progress and final compliance date, as measured from [the effective date of this rule]:

1. Submit final plans to the department for achieving compliance within 5 months.

2. Award contracts for equipment modifications or issue orders for the purchase of component parts to accomplish equipment modifications within 7 months.

3. Commence construction or installation of equipment modifications within 10 months.

4. Complete construction or installation of equipment modifications within 16 months.

5. Achieve final compliance not later than December 31, 1987.

SECTION 5. NR 424.02(1) is created to read:

NR 424.02(1) "Aerosol can filling facility" means any facility which inserts aerosol propellants composed of butanes, isobutanes or propanes, into cans.

SECTION 6. NR 424.04 is created to read:

NR 424.04 AEROSOL CAN FILLING. (1) APPLICABILITY. Effective [the effective date of this rule], this section applies to any aerosol can filling facility which has a total emissions of VOCs of more than 100 tons per year and which is located within the counties of Kenosha, Milwaukee, Ozaukee, Racine, Washington or Waukesha.

(2) EMISSION LIMITATIONS. No owner or operator of an aerosol can filling facility may cause, allow, or permit the amount of VOCs emitted from an aerosol can filling operation to exceed an average of 0.66 grams per can, as measured by a flame ionization detector or other device or test approved by the department.

(3) COMPLIANCE REQUIREMENTS AND SCHEDULES. The owner or operator of an aerosol can filling facility shall comply with the requirements of this section as follows:

(a) The owner or operator of an aerosol can filling facility which is in compliance with the emission control requirements and emission limitations of this section shall certify compliance to the satisfaction of the department within 90 days after [the effective date of this rule].

(b) The owner or operator of an aerosol can filling facility on which construction or modification commenced on or after [the effective date of this rule] shall meet the emission limitations of this section upon startup unless the owner or operator demonstrates to the satisfaction of the department that compliance upon startup would be technologically infeasible. Such sources shall instead meet a department specified compliance schedule which provides for compliance with the emission limitations of this section as soon as practicable but in no event later than the time period allowed for achieving final compliance under par. (c).

(c) The owner or operator of an aerosol can filling facility which proposes to comply with the requirements of this section by installing and operating emission control equipment or process equipment may not exceed the deadlines specified in the following increments of progress and final compliance date, as measured from [the effective date of this rule]:

1. Submit final plans to the department for achieving compliance within 5 months.

2. Award contracts for equipment modifications or issue orders for the purchase of component parts to accomplish equipment modifications within 7 months.

3. Commence construction or installation of equipment modifications within 10 months.

4. Complete construction or installation of equipment modifications within 16 months.
5. Achieve final compliance not later than December 31, 1987.

The foregoing rules were approved and adopted by the State of Wisconsin Natural Resources Board on February 27, 1986.

The rules contained herein shall take effect as provided in s. 227.026.(1)(intro.), Stats.

Dated at Madison, Wisconsin

April 29, 1986

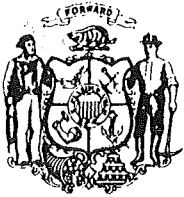
STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES

By

Carroll D. Besadny
Carroll D. Besadny, Secretary

(SEAL)

6127Y.PERM
03/05/86



State of Wisconsin

DEPARTMENT OF NATURAL RESOURCES

Carroll D. Besadny
Secretary

BOX 7921
MADISON, WISCONSIN 53707

April 29, 1986

IN REPLY REFER TO: 1020

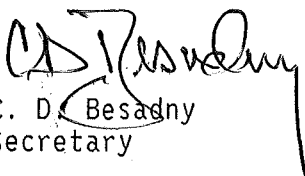
Mr. Orlan L. Prestegard
Revisor of Statutes
Suite 904
30 W. Mifflin Street

Dear Mr. Prestegard:

Enclosed are two copies, including one certified copy, of State of Wisconsin Natural Resources Board Order No. A-30-85a. These rules were reviewed by the Assembly Committee on Environmental Resources and the Senate Committee on Energy and Environmental Resources pursuant to s. 227.018, Stats. Summaries of the final regulatory flexibility analysis and comments of the legislative review committees is also enclosed.

You will note that this order takes effect following publication. Kindly publish it in the Administrative Code accordingly.

Sincerely,


C. D. Besadny
Secretary

Enc.

7973H