

10 CSR 10-2.300 Control of Emissions from the Manufacturing of Paints, Varnishes, Lacquers, Enamels and Other Allied Surface Coating Products

(1) Application.

(A) This regulation shall apply throughout Clay, Jackson and Platte Counties.

(B) This rule applies to those installations which have the uncontrolled potential to emit more than two hundred fifty kilograms per day (250 kg/day) or one hundred (100) tons per year of volatile organic compounds (VOC) from the manufacture of paints, varnishes, lacquers, enamels and other allied surface coating products. This does not include any installation which does not have an allowable VOC emission limit established under 10 CSR 10-6.060 or legally enforceable state implementation plan revision and which has uncontrolled potential emissions less than two hundred fifty (250) kg/day or one hundred (100) tons per year. The uncontrolled potential to emit is the potential emissions (as defined) plus the emissions removed by control devices.

(2) Definitions of certain terms specified in this rule may be found in 10 CSR 10-6.020.

(3) General Provisions. No owner or operator of a manufacturing installation subject to this rule and producing the products listed in section (1) shall cause or allow the manufacture of such products unless the operating equipment meets the requirements contained in this regulation and without adhering to operating procedures recommended by the equipment manufacturer and approved by the director.

(4) Operating Equipment and Operating Procedure Requirements.

(A) Tanks storing VOC with a vapor pressure greater than or equal to ten kilo pascals (10kPa) (1.5 psi) at twenty degrees Celsius (20EC), shall be equipped with pressure/vacuum conservation vents set at 0.2kPa (.029 psi), except where more effective air pollution control is used and has been approved by the director. Stationary VOC storage containers with a capacity greater than two hundred fifty (250) gallons shall be equipped with a submerged-fill pipe or bottom fill, except where more effective air pollution control is used and has been approved by the director.

(B) Covers shall be installed on all open-top tanks used for the production of nonwaterbase coating products. These covers shall remain closed except when production, sampling, maintenance or inspection procedures require operator access.

(C) Covers shall be installed on all tanks containing VOC used for cleaning equipment. These covers shall remain closed except when operator access is required.

(D) All vapors from varnish cooking operations shall be collected and passed through a control device which removes at least eighty-five percent (85%) of the VOCs from these vapors before they are discharged to the atmosphere.

(E) All grinding mills shall be operated and maintained in accordance with manufacturer's specifications. The manufacturer's specifications shall be kept on file and made available to the director upon his/her request.

(F) The polymerization of synthetic varnish or resin shall be done in a completely enclosed operation with the VOC emissions controlled by the use of surface condensers or equivalent controls.

1. If surface condensers are used, the temperature of the exit stream shall not exceed the temperature at which the vapor pressure is 3.5kPA (0.5 psi) for any organic compound in the exit stream.

2. If equivalent controls are used, the VOC emissions must be reduced by an amount equivalent to the reduction which would be achieved under paragraph (4)(F)1. Any owner or operator desiring to use equivalent controls to comply with this subsection shall submit proof of equivalency as part of the control plan required under subsection (5)(A) of this rule. Equivalent controls may not be used unless approved by the director.

(5) Compliance dates.

(A) The owner or operator of a paint, varnish, lacquer, enamel or other allied surface coating production installation subject to this regulation shall submit a final control plan to the director for his/her approval no later than January 25, 1988. This plan shall include a time schedule for compliance containing an engineering design, increments of progress, final compliance and testing dates.

(B) Compliance with this regulation shall be accomplished by affected installations promptly, but in no case later than March 31, 1988.

(6) Compliance Methods and Recordkeeping.

(A) The VOC control efficiency in subsections (4)(D) and (F) shall be determined by the testing methods referenced at 10 CSR 10-6.030(14)(A). The same method shall be used to sample emissions from alternate control measures subject to the director's review in subsection (4)(A).

(B) Owners or operators utilizing add-on control technology shall monitor the following parameters continuously while the affected equipment is in operation:

1. Exit stream temperature on all condensers;
2. Routine and unscheduled maintenance and repair activities on all air pollution control equipment; and
3. Any other parameter which the director determines is necessary to quantify emissions or otherwise determine compliance with this regulation.

(C) Records shall be kept on production rates sufficient to determine daily VOC emissions and any equipment test results performed in conjunction with this regulation.

(D) The owner or operator shall maintain all recorded information required under subsections (6)(B) and (C) and shall keep the records for a period of not less than two (2) years. All these records shall be made available to the director upon his/her request.

10 CSR 10-2.300

EPA Rulemakings

CFR: 40 C.F.R. 52.1320(c)
FRM: 68 FR 14537 (03/26/2003)
PRM: 68 FR 14570 (03/26/2003)
State Submission: 01/23/2003
State Final: 10 C.S.R. 10-2 (11/29/91)
APDB File: MO-220
Description: This revision deletes the notation that section (1)(A) has not been approved. Consequently, the entire rule is SIP approved.

CFR: 40 C.F.R. 52.1320(c)(79)(i)(B)
FRM: 59 FR 43480 (8/24/94), Correction Notice 60 FR 16806 (4/3/95)
PRM: 57 FR 32191 (7/21/92)
State Submission: 11/20/91
State Proposal: 16 MR 989 (7/1/91)
State Final: 10 C.S.R. 10-2 (11/29/91)
APDB File: MO-100
Description: This revision updates this rule to include the correct reference method specified in 10 C.S.R. 10-6.030.

CFR: 40 C.F.R. 52.1320(c)(65)(i)(B)
FRM: 54 FR 10322 (3/13/89)
PRM: 53 FR 24735 (6/30/88)
State Submission: 5/21/86 and 12/18/87
State Proposal: 11 MR 773 (4/15/86), 12 MR 1135 (8/17/87)
State Final: 11 MR 2146 (9/16/86), 12 MR 1773 (12/2/87)
APDB File: MO-49
Description: The EPA approved a new regulation which established requirements for paint manufacturing.

Difference Between the State and EPA-Approved Regulation

None.