

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

(1) Applicability.

(A) This rule applies throughout Clay, Jackson, and Platte Counties.

(B) This rule applies to those facilities 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 (VOCs) from the manufacture of paints, varnishes, lacquers, enamels, and other allied surface coating products.

(2) Definitions

(A) Add-on control device—An air pollution control device, such as a thermal oxidizer or carbon adsorber, that reduces pollution in an air stream by destruction or removal before discharge to the atmosphere.

(B) Condenser—Any heat transfer device used to liquefy vapors by removing their latent heats of vaporization including, but not limited to, shell and tube, coil, surface, or contact condensers.

(C) Control device—Any equipment that reduces the quantity of a pollutant that is emitted to the air. The device may destroy or secure the pollutant for subsequent recovery. Includes, but is not limited to, incinerators, carbon adsorbers, and condensers.

(D) Director—Director of the Missouri Department of Natural Resources or a representative designated to carry out the duties as described in 643.060, RSMo.

(E) Facility—All contiguous or adjoining property that is under common ownership or control, including properties that are separated only by a road or other public right-of-way.

(F) Paints and allied products—Materials such as paints, inks, adhesives, stains, varnishes, shellacs, putties, sealers, caulks, and other coatings from raw materials that are intended to be applied to 10 CSR 10-2.300 2 a substrate and consists of a mixture of resins, pigments, solvents, and/or other additives.

(G) Paints, varnishes, lacquers, enamels, and other allied surface coating products manufacturing—The production of paints and allied products, the intended use of which is to leave a dried film of solid material on a substrate. Typically, the manufacturing processes that produce these materials are described by Standard Industry Classification (SIC) codes 285 or 289 and North American Industry

Classification System (NAICS) codes 3255 and 3259 and are produced by physical means, such as blending and mixing, as opposed to chemical synthesis means, such as reactions and distillation. Paints, varnishes, lacquers, enamels, and other allied surface coating products manufacturing does not include:

1. The manufacture of products that do not leave a dried film of solid material on the substrate, such as thinners, paint removers, brush cleaners, and mold release agents;
2. The manufacture of electroplated and electroless metal films;
3. The manufacture of raw materials, such as resins, pigments, and solvents used in the production of paints and coatings; and
4. Activities by end users of paints or allied products to ready those materials for application.

(H) Potential to emit—The emission rates of any pollutant at maximum design capacity. Annual potential shall be based on the maximum annual-rated capacity of the facility assuming continuous year-round operation. Federally enforceable permit conditions on the type of materials combusted or processed, operating rates, hours of operation, and the application of air pollution control equipment shall be used in determining the annual potential. Secondary emissions do not count in determining annual potential.

(I) Volatile organic compound (VOC)—See definition in 10 CSR 10-6.020.

(3) General Provisions.

(A) Operating Equipment and Operating Procedure Requirements.

1. Tanks storing VOC with a vapor pressure greater than or equal to ten kilo pascals (10kPa) (1.5 psi) at twenty degrees Celsius (20°C), shall be equipped with pressure/vacuum conservation vents set at 0.2kPa (0.029 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.

2. Covers shall be installed on all open-top tanks used for the production of non-water-based coating products and remain closed except when production, sampling, maintenance, or inspection procedures require operator access.

3. Covers shall be installed on all tanks containing VOC used for cleaning equipment and remain closed except when operator access is required.

4. 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.

5. 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.

6. 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.

A. 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.

B. If equivalent controls are used, the VOC emissions must be reduced by an amount equivalent to the reduction which would be achieved under subparagraph (3) (A) 6.A. Equivalent controls may not be used until proof of equivalency has been submitted to the department and approved by the director.

(B) Compliance Determination.

1. The VOC control efficiencies specified in paragraphs (3) (A) 4. And (3) (A) 6. shall be determined by the method in section (5) of this rule.

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

A. Exit stream temperature on all condensers;

B. Routine and unscheduled maintenance and repair activities on all air pollution control equipment; and

C. Any other parameter which the director determines is necessary to quantify emissions or otherwise determine compliance with this regulation.

(4) Reporting and Record Keeping.

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

(B) The owner or operator shall maintain all recorded information required under section (4) of this rule. All records shall be kept for at least two (2) years and made available to the director upon request.

(5) Test Methods. 40 CFR 60, Appendix A-7, Method 25 as specified in 10 CSR 10-6.030(22).

EPA Rulemakings

CFR: 40 C.F.R. 52.1320(c)
FRM: 85 FR 20424 (04/13/2020)
PRM: 85 FR 8229 (02/13/2020)
State Submission: 02/15/2019
State Final: 10 C.S.R. 10-2 (1/29/19); effective date 2/28/2019
APDB File: MO-405
Description: This revision amends the SIP to update references to test methods, streamlines rules, removes compliance dates that have already passed and makes other administrative wording changes.

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.