

10 CSR 10-2.360 Control of Emissions from Bakery Ovens

(1) Definitions. Definitions of some of the terms used in this rule may be found in 10 CSR 10-6.020 Definition and Common reference Tables.

(2) Applicability.

(A) This rule shall apply only in Clay, Platte and Jackson Counties.

(B) This rule shall apply to existing commercial bakeries whose potential emissions of volatile organic compounds (VOCs) are greater than one hundred tons per year (100) tpy. These bakeries shall demonstrate compliance with this rule by January 1, 1997.

(C) This rule shall apply to new or modified commercial bakeries whose potential emissions of VOCs are greater than one hundred (100 tpy) upon start-up.

(3) Requirements. Existing or new commercial bakeries which meet the applicability level in subsections (2)(A), (B) and (C) shall install VOC emissions control device(s) in order to achieve at least ninety percent (90%) destruction and capture efficiencies or achieve at least eighty percent (80%) total removal efficiency on the combined emissions of all baking ovens.

(4) Determination of Compliance. Compliance with this rule shall be determined by the following methods:

(A) The destruction efficiency shall be determined by using Environmental Protection Agency (EPA) Test Method 25A or another equivalent method that is approved by the director.

(B) The amount of VOC per ton of baked bread shall be based on the EPA emission factors published in the Environmental Protection Agency document entitled "Alternative Control Technology Document for Bakery Oven Emissions," EPA 453/R-92-017, December 1992, or administrator-approved alternative methods determined through stack testing or administrator-approved industry literature. Alternative methods must be approved by the director.

(C) The capture efficiency of the air pollution control device shall be determined using the method referenced in 10 CSR 10-6.030(20) or by an administrator-approved alternative method. Alternative methods must be approved by the director.

(5) Recordkeeping.

(A) The owner or operator of a bakery oven shall maintain a daily record of operations. The daily records shall include at least:

1. The amount of raw material processed;
2. The percentage of yeast used;
3. The fermentation time;
4. The type of product baked;
5. The amount of product baked;
6. The emission factor used for each product; and
7. The quarterly emissions.

(B) Bakery owners or operators employing VOC emission control device(s) shall, as applicable, continuously monitor and record the following parameters of such device(s) while the bakery oven is in operation.

1. Exhaust temperature of all combustion devices, if used. Combustion devices must be operated at temperatures high enough to achieve optimum destruction efficiency. The optimum operating temperatures will be established by the department at the time of compliance determination;

2. Temperature rise across a catalytic oxidation bed, if used;

3. Exit stream temperature on all condensers, if used; and

4. Any other monitoring parameters as found necessary by the director.

(C) Records under subsections (5)(A) and (B) shall be retained by the owner or operator for a minimum of five (5) years. These records shall be made available to the representatives of the Missouri Department of Natural Resources upon request.

(6) Compliance Schedules. Any bakery owner or operator of an existing source subject to this rule shall submit a compliance plan to the director within three (3) months of the rule effective date. The compliance plan shall include, but shall not be limited to, control device description, testing protocol, date of compliance, and an operating and maintenance plan for the control device(s). The owner or operator must implement the approved plan and demonstrate compliance with this rule by January 1, 1997.

EPA Rulemakings

CFR: 40 C.F.R. 62.1320(c)(107)(i)(A)
FRM: 63 FR 38755 (7/20/98)
PRM: 61 FR 40591 (8/5/96)
State Submission: 3/6/96
State Proposal: 20 MR 1765 (6/15/95)
State Final: 10 C.S.R. 10-2 (11/30/95)
APDB File: MO-129
Description: The EPA approved a new regulation which restricts volatile organic compound emissions from large commercial bakery operations in the Kansas City area.

Difference Between the State and EPA-Approved Regulation

None.