

REGULATION 6.09 Standards of Performance for Existing Process Operations

Air Pollution Control District of Jefferson County Jefferson County, Kentucky

Relates To: KRS Chapter 77 Air Pollution Control

Pursuant To: KRS Chapter 77 Air Pollution Control

Necessity And Function: KRS 77.180 provides that the Air Pollution Control Board may make and enforce all orders, rules, and regulations necessary or proper to accomplish the purposes of KRS Chapter 77. This regulation provides for the control of emissions from existing process operations.

SECTION 1 Applicability

- 1.1 This regulation applies to each process operation that was in existence or commenced construction, modification, or reconstruction on or before September 1, 1976, except any process otherwise regulated by any other portion of Regulation 6, with respect to those pollutants otherwise regulated.
- 1.2 Emissions of particulate matter that do not exit through a control device or stack are subject to Regulation 1.14 *Control of Fugitive Particulate Emissions*.

SECTION 2 Definitions

Terms used in this regulation that are not defined in this regulation shall have the meaning given them in Regulation 1.02 *Definitions*.

- 2.1 "Affected Facility" as related to process operations means the last operation preceding the emission of air contaminants that results:
 - 2.1.1 In the separation of the air contaminant from the process materials, or
 - 2.1.2 In the conversion of the process materials into air contaminants, but does not include an air abatement operation.
- 2.2 "Duplicate Operation" means any combination of two or more individual process operations of any size that are of the same nature and are located at the same stationary source.
- 2.3 "Process Operation" means any method, form, action, operation, or treatment of manufacturing or processing, and shall include any storage or handling of materials or products before, during, or after manufacturing or processing.
- 2.4 "Process Weight" means the total weight of all materials introduced into any affected facility that may cause any emission of particulate matter, but does not include liquid and gaseous fuels charged, air, or uncombined water.
- 2.5 "Process Weight Rate" means a rate established as follows:
 - 2.5.1 For continuous or long-run steady state operations, the total process weight for the entire period of continuous operation or for a typical portion of continuous operation divided by the number of hours of that period or portion of that period, or
 - 2.5.2 For cyclical or batch unit operations or unit processes, the total process weight for a period that covers a complete operation or an integral number of cycles divided by the hours of actual process operation during that period.

If the nature of any process operation or the design of any equipment would permit more than one interpretation of this definition, then the interpretation that results in the minimum value for allowable emission shall apply.

- 2.6 "Reasonably Available Control Technology" (RACT) means, as approved by the District on a case-by-case basis, the lowest emission limit that a source is capable of meeting using control equipment or operational practices that are available to the source, taking into consideration technological and economic feasibility.

SECTION 3 Standard for Particulate Matter

No owner or operator subject to this regulation shall cause to be discharged into the atmosphere from any affected facility, or from any air pollution control equipment installed on any affected facility, any gases that may contain particulate matter that:

- 3.1 Is equal to or greater than 20% opacity, or,
- 3.2 Is in excess of the quantity specified in Table 1.
- 3.3 Opacity Standard
 - 3.3.1 No person shall cause, suffer, allow, or permit any continuous emission into the open air from a control device or stack associated with any affected facility that is equal to or greater than 20% opacity.
- 3.3 An affected facility may elect to substitute the following standards in lieu of the value given in Table 1:
 - 3.3.1 A maximum exit particulate emission concentration of 0.02 grains per standard cubic foot, and
 - 3.3.2 Air pollution control equipment of at least 97% actual efficiency.
 - 3.3.3 Addition of dilution air shall not constitute compliance.
- 3.4 Fugitive emissions of particulate matter from any affected facility shall be subject to RACT requirements as set forth in conditions appearing on the operating permits.
 - 3.4.1 The process weight rate entry to be used in Table 1 for duplicate operations is the total or combined process weight rate of all the individual component operations.
 - 3.4.2 To determine an allowable emission rate for each stack when duplicate operations vent through separate stacks, the following formula shall be used:

$$E_s = \frac{E_t P_s}{P_t}$$

where:

- E_s = Allowable Emission rate for the individual stack.
- E_t = Total allowable emission rate for the duplicate operation (from Table 1).
- P_s = Process weight rate for process operations vented through individual stack.
- P_t = Total process weight rate for the duplicate operation.

If a single process operation is vented through multiple stacks, then the allowable emission rate for all stacks venting the source shall be equal to the allowable emission rate as if the

source vented through a single stack.

SECTION 4 Standard for Nitrogen Oxides

No owner or operator subject to this regulation shall cause to be discharged into the atmosphere from any affected facility or from any air pollution control equipment installed on any affected facility any NO_x fumes in excess of:

- 4.1 300 ppm by volume, expressed as NO₂, or
- 4.2 An invisible discharge.

SECTION 5 Test Methods and Procedures

Performance tests used to demonstrate compliance with this regulation shall be conducted according to Regulation 1.04 *Performance Tests*.

Adopted v1/4-19-72; effective 4-19-72; amended v2/9-1-76, v3/6-13-79, v4/11-28-79, v5/11-16-83, v6/3-17-99, v7/01-17-18.

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