

REGULATION 7.09 Standards of Performance for New Process Gas Streams

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 needful orders, rules, and regulations necessary or proper to accomplish the purposes of KRS Chapter 77. This regulation provides for the control of emissions in new process gas streams.

SECTION 1 Applicability

This regulation applies to each affected facility, which means any process gas stream that:

- 1.1 Is not elsewhere subject to a standard of performance within these regulations with respect to hydrogen sulfide, sulfur dioxide, or carbon monoxide, and
- 1.2 Commenced on or after April 19, 1972.

SECTION 2 Definitions

Terms used in this regulation not defined herein shall have the meaning given them in Regulation 1.02.

- 2.1 "Process gas stream" means any gas stream emitted from any process.

SECTION 3 Standard for Hydrogen Sulfide

- 3.1 A person shall not cause or allow at an affected facility the release of a process gas stream containing hydrogen sulfide with a concentration greater than 10 grains per 100 dscf at 0% excess oxygen.
- 3.2 A person shall not cause or allow at an affected facility the combustion of a process gas stream containing hydrogen sulfide with a concentration greater than 10 grains per 100 dscf at 0% excess oxygen unless the resulting emission of sulfur dioxide is less than 40 tons per year and a modeling demonstration pursuant to Regulation 2.11 is made showing attainment and maintenance of the NAAQS for sulfur dioxide.

SECTION 4 Standard for Sulfur Dioxide

A person shall not cause or allow at an affected facility the release of a process gas stream containing sulfur dioxide with a concentration greater than 28.63 grains per 100 dscf at 0% excess oxygen unless the resulting emission of sulfur dioxide is less than 40 tons per year and a modeling demonstration pursuant to Regulation 2.11 is made showing attainment and maintenance of the NAAQS for sulfur dioxide.

SECTION 5 Standard for Carbon Monoxide

- 5.1 No person shall emit carbon monoxide gases from a process or waste gas stream unless they are burned at 1,300°F for 0.5 seconds or greater in a direct flame afterburner or equivalent device equipped with an indicating pyrometer that is positioned in the working area at the operator's eye level.

- 5.2 No person shall emit a carbon monoxide waste gas stream from any catalyst regeneration of a petroleum cracking system, petroleum fluid coker, or other petroleum process into the atmosphere unless the waste gas stream is burned at 1,300°F for 0.5 seconds or greater in a direct flame afterburner, or equivalent, equipped with an indicating pyrometer that is positioned in the working area at the operator's eye level.

Adopted v1/7-14-76; effective 9-1-76; amended v2/6-13-79, v3/6-18-97.

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