

REGULATION 6.10 Standard of Performance for Existing 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 from process gas streams at existing facilities.

SECTION 1 Applicability

This regulation applies to petroleum refineries, by-product coke plants, and any other processes which were in being or under construction before 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" means any gas generated by or employed in a process operation or process unit not specifically defined elsewhere within these regulations.

SECTION 3 Standard for Hydrogen Sulfide

No owner or operator subject to this regulation shall cause the emission of H₂S in a process gas stream to exceed ten grains per 100 dry standard cubic feet of gas at 0% oxygen.

SECTION 4 Standard for Sulfur Dioxide

No owner or operator subject to this regulation shall cause the emission of SO₂ in a process gas stream to exceed 2000 parts per million by volume at 0% oxygen.

SECTION 5 Standard for Carbon Monoxide

No owner or operator subject to this regulation shall cause the emission of carbon monoxide in a process gas stream unless the gases are burned at 1300 °F for 0.5 seconds or greater in a direct flame afterburner or equivalent device equipped with an indicating pyrometer which is positioned in the working area at the operator's eye level.

SECTION 6 Test Methods and Procedures

Except as provided in Regulation 1.04, performance tests used to demonstrate compliance with sections 3 and 4 shall be conducted according to the following methods described in 40 CFR Part 60:

6.1 Reference Method 11 for hydrogen sulfide. The sample shall be drawn from a point near the centroid of the gas line. The minimum sampling time shall be ten minutes and the minimum sample volume 0.01 dscm (0.35 dscf) for each sample. The arithmetic average

of two samples shall constitute one run. Samples shall be taken at approximately one hour intervals.

- 6.2 Reference Method 6 for sulfur dioxide. Reference Method 1 shall be used for velocity traverses and Reference Method 2 for determining velocity and volumetric flow rate. The sampling site for determining SO₂ concentration by Reference Method 6 shall be the same as for determining the volumetric flow rate by Reference Method 2. The sampling point in the duct for determining SO₂ concentration by Reference Method 6 shall be at the centroid of the cross section or at a point no closer to the walls than one meter (39 inches) if the cross-sectional area is five square meters or more and the centroid is more than one meter from the wall. The sample shall be extracted at a rate proportional to the gas velocity at the sampling point. The minimum sampling time shall be ten minutes and the minimum sampling volume 0.01 dscm (0.35 dscf) for each sample. The arithmetic average of two samples shall constitute one run. Three runs will constitute one compliance test. Samples shall be taken at approximately one hour intervals.

SECTION 7 Compliance Schedule

The owner or operator of an affected facility not in compliance as of June 13, 1979, the adopted date, shall be required to:

- 7.1 Submit a control plan for achieving compliance no later than September 1, 1979.
- 7.2 Award control system contract no later than October 1, 1979.
- 7.3 Initiate on-site construction by March 1, 1980.
- 7.4 Complete construction of control system by October 1, 1980.
- 7.5 Achieve final compliance by December 1, 1980.

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.

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