For Regulation Subcommittee review January 18, 2022.

The Air Program is in the beginning stages of regulation review -- seeking Board of Health approval to take this to public comment.

**Proposed**

**Revision to ALLEGHENY COUNTY’S portion of the**

**PENNSYLVANIA STATE IMPLEMENTATION PLAN**

**For the**

**Attainment and Maintenance of the National**

**Ambient Air Quality Standards**

**Revision Tracking No. 94**

Allegheny County Health Department

Rules and Regulations

Article XXI, Air Pollution Control

**Addition to Article XXI of:**

**§2105.87 Control of VOC Emissions from Oil and Natural Gas Sources**

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**1. Article XXI Changes**

**PART E - SOURCE EMISSION AND OPERATING STANDARDS**

***Subpart 7 –Miscellaneous VOC Sources***

**….**

**The following section is *proposed* to be added to Article XXI:**

**ALL NEW TEXT**

**§2105.87 CONTROL OF VOC EMISSIONS FROM OIL AND NATURAL GAS SOURCES** *{Section added Month, Day, 20nn, effective Month, Day, 20nn}*

1. **Incorporation by Reference.** Except as otherwise specifically provided under this Section, this Section shall be applied consistent with the provisions of the state regulation for ‘Control of VOC Emissions from Oil and Natural Gas Sources’ promulgated under the Air Pollution Control Act at 25 Pa. Code §§129.121- 129.130 which are hereby incorporated by reference into this Article. All terms used in 25 Pa. Code §§129.121- 129.130 and defined in 25 Pa. Code §121.1 are hereby incorporated by reference, except as explicitly set forth herein. Additions, revisions, or deletions to such regulation by the Commonwealth are incorporated into this Article and are effective on the date established by the state regulations, unless otherwise established by regulation under this Article.
2. For purposes of this Section:
   1. “Department” shall mean Department as defined under this Article;
   2. References in 25 Pa. Code §129.127, and §129.130, to “the Air Program Manager of the appropriate Department Regional Office” shall mean the Air Program Manager of the Allegheny County Health Department;

* 1. References in 25 Pa. Code §129.129, to “the Department’s Bureau of Waste Management” shall mean the Allegheny County Health Department’s Waste Management Program;

* 1. “Plan approval” shall mean Installation Permit;

* 1. References in 25 Pa. Code §121.1, in the definition of “Responsible Official,” toChapter 127 (relating to construction, modification, reactivation and operation of sources), or Chapter 129 (relating to standards for sources), shall mean Article XXI, Parts B and C, and Article XXI, Part E, respectively.

**2. Technical Support Document**

**A. General**

The proposed change to Article XXI adds regulations addressing the Control Techniques Guidelines (CTG) for ‘Control of VOCs from Oil and Natural Gas Sources,’ as new Article XXI, §2105.87.

The Clean Air Act requires that state implementation plans (SIPs) for ozone non-attainment areas and ozone transport regions include reasonably available control measures, including reasonably available control technologies (RACT), for sources of emissions. Control Techniques Guidelines (CTGs) are promulgated by the EPA to provide state and local air pollution control authorities information that should assist them in determining RACT. Air programs must revise their SIPs to include RACT for sources of Volatile Organic Compounds (VOC) emissions covered by a CTG. The EPA has mandated that CTGs become regulations, written by State or Local Air Pollution Control Agencies. ACHD has adopted all applicable CTGs issued prior to 2016.

On October 27, 2016, EPA issued the CTG for the Oil and Natural Gas Industry for emissions of VOC from existing sources. The PA DEP has developed draft final-form regulations to be promulgated at 25 Pa. Code Sections 129.121 to 120.130, that will meet the requirements of the CTG for existing sources of natural gas and oil facilities. Sources covered by the regulations are storage vessels, natural gas-driven pneumatic controllers, natural gas-driven diaphragm pumps, centrifugal and reciprocating compressors, and fugitive emissions. Note that wells are not affected sources under the CTG or the final-form rulemaking. While the PA DEP regulations differ to some extent from the EPA CTG, the DEP has evaluated each source to be regulated to ensure alignment with EPA’s CTG.

ACHD is incorporating the proposed PA DEP regulations by reference. In so doing, these Article XXI proposed regulations will have requirements similar to those of the federal CTG, as explained above. The proposed incorporated by reference regulation will fulfill the County’s requirements to include the Oil and Natural Gas Industry CTG in its portion of the Pennsylvania SIP.

The addition of **§2105.87** to Article XXI constitutes a change to the Allegheny County portion of the Pennsylvania State Implementation Plan (SIP) for the control of ozone.

**B. What is being incorporated by reference**

Attached for purposes of defining the regulation that is being incorporated by reference into Article XXI at Section 2105.87, is the Pennsylvania Department of Environmental Protections proposed 25 Pa. Code Sections 129.121 to 129.130, as it was presented to the December 9, 2021 meeting of Pennsylvania Air Quality Technical Advisory Committee.

The document file name is “O & G FRN Annex A AQTAC 10-27-2021 Draft.”

Please click on the icon below to view the document.



The regulation was subject to public comment and changes made since the public comment period are shown in the above DEP document in bold, capitalized text for additions, and ‘strikethrough’ for deletions. Below is a summary of the changes to each section.

§ 129.121: General provisions and applicability.

• Updated the applicability for natural gas-driven pneumatic controller to clarify the final-form rulemaking applies to natural gas-driven continuous bleed pneumatic controller.

§ 129.122: Definitions, acronyms and EPA Methods.

• Some unnecessary terms were removed, and minor edits made to other terms for clarification.

§ 129.123. Storage vessels.

• Applicability for 95% VOC control is reduced to 2.7 tons per year (TPY) threshold for all storage vessels.

• Maximum daily average throughput changed to monthly average throughput to calculate actual VOC emissions.

§ 129.124. Natural gas-driven continuous bleed pneumatic controllers.

• Changed the term natural gas-driven pneumatic controller to natural gas-driven continuous bleed pneumatic controller for clarity.

§ 129.125. Natural gas-driven diaphragm pumps.

• Minor edits for clarification, no significant changes were made.

§ 129.126. Compressors.

• Changed the applicability for reciprocating compressors to require rod packing changes for reciprocating compressors located at well sites.

• Allowed routing the VOC emissions from a reciprocating compressor to a control device in addition to a process.

§ 129.127. Fugitive emissions components.

• Well site producing, on average, equal to or greater than 15 BOE per day, with at least one well producing, on average, equal to or greater than 15 BOE per day, must perform quarterly LDAR inspection.

• Well site producing, on average, equal to or greater than 15 BOE per day, and at least one well producing, on average, equal to or greater than 5 BOE per day but less than 15 BOE per day must perform annual LDAR inspections. Operators in this category can request an exemption from the annual instrument-based LDAR inspection on a case-by-case basis.

• Removed 2% leak step-down provision and replaced it with the following production-based provision:

• Well site production and individual well production must be calculated on an annual basis.

• If the result of the calculation would allow the well site to inspect at a lower frequency, the owner or operator may adopt the less frequent inspections after two consecutive calculations.

• If the result of the calculation would require the well site to inspect at a higher frequency, the owner or operator shall adopt the higher frequency of inspection immediately

§ 129.128. Covers and closed vent systems.

• The requirements for initial AVO inspections were changed from 30 days to 60 days after the effective date of the final-form rulemaking.

§ 129.129. Control devices.

• Minor clarifications are made to performance testing requirement.

§ 129.130. Recordkeeping and reporting.

• Minor edits were made to reflect the reduction to 2.7 TPY threshold for storage vessels and refer to natural gas continuous bleed pneumatic controllers.

3. Documentation of Public Hearing and Certifications

Notice of Public Hearing (later)

Transmittals of hearing notice to EPA & PA DEP (later)

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