



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION



Bureau of Air Quality

Proposed Rulemaking

25 Pa. Code Chapters 121 and 129

Control of VOC Emissions from Industrial Cleaning Solvents;
General Provisions; Aerospace Manufacturing and Rework;
and Additional RACT Requirements for
Major Sources of NOx and VOCs

Environmental Quality Board Meeting
March 21, 2017

Purpose of Proposed Rulemaking

- Establishes Reasonably Available Control Technology (RACT) requirements and RACT emission limitations for volatile organic compound (VOC) emissions from the use of organic industrial cleaning solvents.
- Emissions of VOCs are precursors to the formation of ground-level ozone, a public health and welfare threat.
- VOC RACT emission reduction measures for these sources are reasonably required to achieve and maintain the 8-hour ground-level ozone National Ambient Air Quality Standards (NAAQS) and to satisfy related Clean Air Act requirements for this Commonwealth.

Basis of the Proposed Rulemaking

- Proposed RACT requirements are consistent with the Control Techniques Guidelines (CTG) for Industrial Cleaning Solvents (ICS) issued by the EPA in 2006.
- EPA published the proposed ICS CTG nationwide for public comment in August 2006 prior to issuing the final Guidelines in October 2006.
- RACT recommendations in the ICS CTG are based on the data and information that were available to the EPA.
- RACT for these sources is required statewide, and not just in designated ozone nonattainment areas, because PA is included in the Ozone Transport Region (OTR).

Overview of the Proposed Rulemaking

- Will apply statewide to the owner and the operator of an existing stationary source at which an organic industrial cleaning solvent is used or applied in a cleaning activity which is not otherwise regulated under 25 Pa. Code, Chapters 129 and 130.
- Cleaning activities include actions such as wiping, flushing, or spraying to remove a contaminant, including an adhesive, ink, paint, dirt, soil, oil, or grease, from a cleaning unit operation or work production-related work area or from a part, product, tool, machinery, equipment, vessel, floor, or wall.

Elements of the Proposed Rulemaking

Proposed § 129.63a includes the following elements:

- Applicability.
- Exceptions and exemptions.
- Emission limitations.
- Compliance date.
- Work practice requirements.
- Compliance demonstration.
- Recordkeeping and reporting.

Applicability Threshold

- Applicability threshold is 2.7 tons (2,455 kilograms) of total combined actual VOC emissions from all subject cleaning unit operations at the facility per 12-month rolling period, before consideration of controls.
- An owner and operator with subject emissions:
 - Equal to or greater than the threshold must comply with the VOC emission limitations, work practice requirements, and recordkeeping and reporting requirements.
 - Less than the threshold would be subject to only the recordkeeping and reporting requirements.

Emission Limitation Requirements

Compliance options include the following:

- Use of a complying industrial cleaning solvent:
 - VOC content at or below 50 grams of VOC per liter of solvent as applied.
 - VOC composite vapor pressure at or below 8 mmHg at 68°F (20°C) as applied.
- Use of a VOC emissions capture system and add-on air pollution control device.

Compliance Date

- Compliance would be required as of the date of publication in the *Pennsylvania Bulletin* as final-form rulemaking.
- Will be submitted to the EPA for approval as a revision to the SIP upon final-form publication in the *Pennsylvania Bulletin*.
- Submit as quickly as possible after promulgation to avoid the imposition of sanctions.

Affected Parties

- As many as 576 facility owners and operators statewide may be subject, of which as many as 253 may be small businesses.
- It is likely that far fewer than 576 facility owners and operators would be subject, depending on whether the VOC emissions are from a cleaning activity subject to an existing regulation elsewhere in Chapter 129 or Chapter 130.
- As many as 40 facility owners and operators listed in AIMS and eFACTS may be subject, of which as many as 18 may be small businesses.

Economic Impact

- Determination of RACT for a source of VOC emissions considers costs to the affected owners and operators.
- Annual cost of compliance for each affected facility owner or operator estimated to range from an average savings of \$282 to an average cost of \$27.
- DEP expects the financial impact would be minimal.
- Common industrial cleaning solvents have vapor pressures well below the 8 mmHg at 68°F (20°C) vapor pressure limit specified in proposed § 129.63a.

Environmental Impact

- Maximum VOC emission reductions achieved by the potentially affected 576 facilities are estimated at approximately 12,499 tons annually.
- Actual VOC emission reductions may be lower because some potentially affected facility owners and operators may already comply with various elements of the proposed rulemaking or with existing regulations in Chapters 129 and 130.
- VOC emission reductions will reduce the formation of ground-level ozone and allow the Commonwealth to make progress in attaining and maintaining the ozone NAAQS.

Minor Clarifying Amendments

- Minor clarifying changes to:
 - § 121.1 (relating to definitions).
 - § 129.73 (relating to aerospace manufacturing and rework).
 - §§ 129.96, 129.97, 129.99, and 129.100 (relating to additional RACT requirements for major sources of NO_x and VOCs).
- No changes are made to emission limits or other substantive requirements in these sections.

Advisory Committee Review

- The following advisory committees concurred with DEP's recommendation to move the proposed rulemaking to the EQB for consideration:
 - The Air Quality Technical Advisory Committee on February 11, 2016.
 - The Citizens Advisory Council on March 15, 2016.
 - The Small Business Compliance Advisory Committee on April 27, 2016.

➤ Recommended Public Participation Process

- A 60-day public comment period.
- Public hearings in three locations:
 - Pittsburgh
 - Harrisburg
 - Norristown



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