



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION



Bureau of Air Quality

Final Rulemaking: 25 Pa. Code Chapter 129

**Control of Volatile Organic Compound Emissions
from
Fiberglass Boat Manufacturing Materials**

**Environmental Quality Board Meeting
May 20, 2015**

Purpose of Final Rulemaking

- Establishes Reasonably Available Control Technology (RACT) for volatile organic compound (VOC) emissions from fiberglass boat manufacturing materials.
- These VOC emission reduction measures are reasonably required to attain and maintain the 1997 and 2008 8-hour National Ambient Air Quality Standards (NAAQS) for ozone.
- RACT for these VOC-emitting sources is required statewide because PA is included in the Ozone Transport Region established under the Clean Air Act.

Basis of the Final Rulemaking

- The final-form VOC content limits and requirements are consistent with the U.S. Environmental Protection Agency's (EPA) recommendations in the Control Techniques Guideline (CTG) for Fiberglass Boat Manufacturing Materials issued in September 2008.
- The EPA VOC content limits and work practices in the CTG are based on the hazardous air pollutant (HAP) content limits and work practices in the 2001 National Emission Standards for Hazardous Air Pollutants (2001 NESHAP) for Boat Manufacturing.
- The EPA determined the emissions from these sources are mostly styrene monomer, which is both a HAP and a VOC.

Elements of the Final Rulemaking

The final-form regulation for fiberglass boat manufacturing materials includes the following elements:

- Applicability
- Definitions
- Exceptions
- Emission limits, application methods and work practices for resin and gel coat materials
- Emission limits and work practices for cleaning materials
- Requirements for add-on air pollution control equipment
- Compliance and monitoring requirements
- Sampling and testing requirements
- Recordkeeping and reporting requirements

Exceptions

Exceptions are provided in the final rulemaking for the following:

- A resin application process in a closed molding operation.
- A surface coating applied to a fiberglass boat.
- A surface coating for a fiberglass and metal recreational boat.
- An industrial adhesive used in the assembly of a fiberglass boat.

Compliance Options for Resin and Gel Coat Materials

- Consistent with EPA recommendations, the final rulemaking provides three compliance options to satisfy RACT requirements for fiberglass boat manufacturing:
 - Low-VOC content open molding resin and gel coat materials
 - Averaging of VOC emissions
 - Operation of a VOC emissions capture system and add-on air pollution control device
- One or more options may be used by an owner or operator for compliance purposes

Affected Parties

- The final rulemaking applies to any owner or operator of a facility that manufactures the following from fiberglass:
 - boat hulls, decks, molds, and plugs; and
 - other related boat parts if hulls, decks or molds are already being manufactured at the facility.
- This rulemaking would affect the owner and operator of one known Title V permitted facility in Pennsylvania (VEC Technology in Greenville, Mercer County).
- No other facilities have been identified.

Environmental Impact

- No additional reductions of VOC emissions are expected from the one known subject facility provided the facility is complying with the 2001 NESHAP requirements for boat manufacturing operations.
- If the final rulemaking affects additional facilities, the following would be achieved:
 - Reduced VOC emissions.
 - Reduced disposal and spillage of high-VOC content resin, gel coat and cleaning materials.
 - Reduced loading on water treatment plants and groundwater impacts.

Economic Impact

- There will be minimal economic impact on affected owners and operators as a result of this final rulemaking
 - Compliant materials are readily available.
 - Less costly non-atomizing application technology is being used.
 - The determination of RACT considers costs to the affected owners and operators.
- Use of compliant materials and non-atomizing application technology costs less than installation and operation of add-on air pollution controls, which are not currently being used by the fiberglass boat manufacturing industry.

Public Participation Process

- The Environmental Quality Board (EQB) approved the proposed Fiberglass Boat Manufacturing Materials rulemaking on May 21, 2014.
- Notice of the proposed rulemaking was published in the *Pennsylvania Bulletin* on July 19, 2014 (44 Pa.B. 4502).
- EQB's 63-day public comment period ended on September 22, 2014.
- Public hearings were held on August 19, 20, and 21, 2014, in Pittsburgh, Norristown, and Harrisburg.
- No one from the general public attended the public hearings or submitted comments to the EQB on the propose rulemaking.

IRRC Comments

- The Independent Regulatory Review Commission (IRRC) forwarded to EQB the following comment received from the Pennsylvania State Association of Township Supervisors (PSATS):
 - PSATS were generally supportive of the proposed rulemaking and did not require any changes to the final-form regulation.
- IRRC also submitted one comment to EQB requesting clarification of the frequency of sampling and testing in subsection (n).
- DEP amended subsections 129.75(m)(2) and (m)(4) of the final-form regulation to address IRRC's concerns.
 - Subsection (m)(2) clarifies that owners and operators must demonstrate compliance with the VOC content requirement for a resin or a gel coat within 90 days after receiving a written request from DEP.
 - Subsection (m)(4) clarifies that source testing of control equipment must be performed once every five years, starting from the date of the initial stack test.

▶ Advisory Committee Review: Draft Final Annex A

Advisory committees concurred with DEP's recommendation to present the final rulemaking to EQB for consideration:

- November 7, 2014 – The Air Quality Technical Advisory Committee concurred;
- January 28, 2015 – The Small Business Compliance Advisory Committee concurred;
- February 201, 2015 – The Citizens Advisory Council (CAC) Policy and Regulatory Oversight Committee concurred; and
- March 17, 2015 – The CAC concurred

Final Rulemaking Recommendations

- DEP recommends that EQB approve the final rulemaking for control of VOC emissions from fiberglass boat manufacturing materials.
- DEP will submit the final-form regulation, if adopted, to the EPA for approval as a revision to the State Implementation Plan upon final-form publication in the *Pennsylvania Bulletin*.



Bureau of Air Quality

Kenneth R. Reisinger
Deputy Secretary for
Waste, Air, Radiation and Remediation

Joyce E. Epps
Director, Bureau of Air Quality

Kristen M. Furlan
Bureau of Regulatory Counsel