



Environmental Protection Agency

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

1/13/2011

Certified Mail

Roger Mola
Fiber-Tech Industries Inc
2000 Kenskill Avenue
Washington Courthouse, OH 43160

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL
Facility ID: 0124010112
Permit Number: P0106762
Permit Type: Administrative Modification
County: Fayette

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
Yes	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install (PTI) which will allow you to install or modify the described emissions unit(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, we urge you to read it carefully. Please complete a survey at www.epa.ohio.gov/dapc/permitsurvey.aspx and give us feedback on your permitting experience. We value your opinion.

The issuance of this PTI is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Kevin Boyce," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. If you have any questions regarding this permit, please contact the Ohio EPA DAPC, Central District Office. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: U.S. EPA
Ohio EPA-CDO; Kentucky



FINAL

**Division of Air Pollution Control
Permit-to-Install
for
Fiber-Tech Industries Inc**

Facility ID: 0124010112
Permit Number: P0106762
Permit Type: Administrative Modification
Issued: 1/13/2011
Effective: 1/13/2011



Division of Air Pollution Control
Permit-to-Install
for
Fiber-Tech Industries Inc

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Authorization

Facility ID: 0124010112

Facility Description: Lamination Plant

Application Number(s): M0000918

Permit Number: P0106762

Permit Description: Administrative Modification to PTI P0106202 to account for OAC rule 3745-21-25 revisions and allow the use of trade-specific styrene emissions factors.

Permit Type: Administrative Modification

Permit Fee: \$100.00

Issue Date: 1/13/2011

Effective Date: 1/13/2011

This document constitutes issuance to:

Fiber-Tech Industries Inc
2351 Kenskill Avenue
Washington Courthouse, OH 43160

of a Permit-to-Install for the emissions unit(s) identified on the following page.

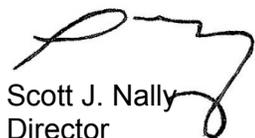
Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Central District Office
50 West Town Street, 6th Floor
P.O. Box 1049
Columbus, OH 43216-1049
(614)728-3778

The above named entity is hereby granted a Permit-to-Install for the emissions unit(s) listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency



Scott J. Nally
Director



Authorization (continued)

Permit Number: P0106762
Permit Description: Administrative Modification to PTI P0106202 to account for OAC rule 3745-21-25 revisions and allow the use of trade-specific styrene emissions factors.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Emissions Unit ID:	R001
Company Equipment ID:	Gelcoat
Superseded Permit Number:	P0106202
General Permit Category and Type:	Not Applicable

A. Standard Terms and Conditions

1. Federally Enforceable Standard Terms and Conditions

- a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:
 - (1) Standard Term and Condition A.2.a), Severability Clause
 - (2) Standard Term and Condition A.3.c) through A. 3.e) General Requirements
 - (3) Standard Term and Condition A.6.c) and A. 6.d), Compliance Requirements
 - (4) Standard Term and Condition A.9., Reporting Requirements
 - (5) Standard Term and Condition A.10., Applicability
 - (6) Standard Term and Condition A.11.b) through A.11.e), Construction of New Source(s) and Authorization to Install
 - (7) Standard Term and Condition A.14., Public Disclosure
 - (8) Standard Term and Condition A.15., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations
 - (9) Standard Term and Condition A.16., Fees
 - (10) Standard Term and Condition A.17., Permit Transfers

2. Severability Clause

- a) A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.
- b) All terms and conditions designated in parts B and C of this permit are federally enforceable as a practical matter, if they are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. Terms and conditions in parts B and C of this permit shall not be federally enforceable and shall be enforceable under State law only, only if specifically identified in this permit as such.

3. General Requirements

- a) The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification.

- b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c) This permit may be modified, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d) This permit does not convey any property rights of any sort, or any exclusive privilege.
- e) The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

4. Monitoring and Related Record Keeping and Reporting Requirements

- a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - (1) The date, place (as defined in the permit), and time of sampling or measurements.
 - (2) The date(s) analyses were performed.
 - (3) The company or entity that performed the analyses.
 - (4) The analytical techniques or methods used.
 - (5) The results of such analyses.
 - (6) The operating conditions existing at the time of sampling or measurement.
- b) Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - (1) Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the Ohio EPA DAPC, Central District Office.
 - (2) Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations,

excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the Ohio EPA DAPC, Central District Office. The written reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See A.15. below if no deviations occurred during the quarter.

- (3) Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted (i.e., postmarked) to the Ohio EPA DAPC, Central District Office every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
 - (4) This permit is for an emissions unit located at a Title V facility. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- d) The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the Ohio EPA DAPC, Central District Office in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

6. Compliance Requirements

- a) The emissions unit(s) identified in this Permit shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.
- b) Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- c) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:

- (1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
 - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - (4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- d) The permittee shall submit progress reports to the Ohio EPA DAPC, Central District Office concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
- (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - (2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

7. Best Available Technology

As specified in OAC Rule 3745-31-05, new sources that must employ Best Available Technology (BAT) shall comply with the Applicable Emission Limitations/Control Measures identified as BAT for each subject emissions unit.

8. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

9. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a) Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the Ohio EPA DAPC, Central District Office.
- b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Ohio EPA DAPC, Central District Office. If no deviations occurred during a calendar quarter, the permittee shall submit a

quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

10. Applicability

This Permit-to-Install is applicable only to the emissions unit(s) identified in the Permit-to-Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

11. Construction of New Sources(s) and Authorization to Install

- a) This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.
- b) If applicable, authorization to install any new emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.
- c) The permittee may notify Ohio EPA of any emissions unit that is permanently shut down (i.e., the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31) by submitting a certification from the authorized official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the authorized official that the emissions unit was permanently shut down. At a minimum, notification of permanent shut down shall be made or confirmed by marking the affected emissions unit(s) as "permanently shut down" in Ohio EPA's "Air Services" along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).
- d) The provisions of this permit shall cease to be enforceable for each affected emissions unit after the date on which an emissions unit is permanently shut down (i.e., emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31). All

records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law. All reports required by this permit must be submitted for any period an affected emissions unit operated prior to permanent shut down. At a minimum, the permit requirements must be evaluated as part of the reporting requirements identified in this permit covering the last period the emissions unit operated.

No emissions unit certified by the authorized official as being permanently shut down may resume operation without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

- e) The permittee shall comply with any residual requirements related to this permit, such as the requirement to submit a deviation report, air fee emission report, or other any reporting required by this permit for the period the operating provisions of this permit were enforceable, or as required by regulation or law. All reports shall be submitted in a form and manner prescribed by the Director. All records relating to this permit must be maintained in accordance with law.

12. Permit-To-Operate Application

The permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77. The permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

13. Construction Compliance Certification

The applicant shall identify the following dates in the online facility profile for each new emissions unit identified in this permit.

- a) Completion of initial installation date shall be entered upon completion of construction and prior to start-up.
- b) Commence operation after installation or latest modification date shall be entered within 90 days after commencing operation of the applicable emissions unit.

14. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

15. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly (i.e., postmarked), by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

16. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable permit-to-install fees within 30 days after the issuance of any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

17. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The new owner must update and submit the ownership information via the "Owner/Contact Change" functionality in Air Services once the transfer is legally completed. The change must be submitted through Air Services within thirty days of the ownership transfer date.

18. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

19. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

B. Facility-Wide Terms and Conditions

1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
 - a) None.

C. Emissions Unit Terms and Conditions



1. R001, Gelcoat

Operations, Property and/or Equipment Description:

Gelcoating operation controlled with primary and secondary enclosures and a catalytic incinerator.

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	<p>Volatile organic compound (VOC) emissions from gelcoat application and VOC-containing cleanup materials shall not exceed 14.7 pounds per hour.</p> <p>VOC emissions from gelcoat application and VOC-containing cleanup materials shall not exceed 27.8 tons per year.</p> <p>See b)(2)a. through b)(2)d.</p>
b.	OAC rule 3745-21-25(D)(1)	See b)(2)e.
c.	OAC rule 3745-21-25(D)(4)	See b)(2)f.
d.	40 CFR Part 63, subpart WWWW	See b)(2)g.
e.	40 CFR Part 63, subpart A (40 CFR Part 63.1-16)	See b)(2)h.

(2) Additional Terms and Conditions

a. The catalytic incinerator controlling VOC emissions from this emissions unit shall operate with a minimum destruction efficiency of 94.7%.

b. VOC emissions from this emissions unit shall be reduced overall by a minimum of 80.5%.

c. The temperature of the exhaust gases at the inlet to the catalyst bed of the incinerator, when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

- d. The secondary enclosure serving this emissions unit shall be employed whenever the emissions unit is in operation. The permittee shall not employ the powered roof ventilator in the secondary enclosure except to ensure that the styrene emission concentrations remain below the Permissible Exposure Limit required by OSHA.
- e. The following work practice standards from table 1 of OAC rule 3745-21-25 apply to this emissions unit:

Type of operation	Work practice standards
Cleaning operation (cleaning of equipment used in reinforced plastic composites manufacture)	Do not use cleaning solvents (cleaners) that have a VOC content greater than 0.42 pound VOC per gallon, except cleaners used in closed systems and used to clean cured resin from application equipment. Application equipment includes any equipment that directly contacts resin.
VOC-containing materials storage operation	Keep containers that store VOC-containing materials closed or covered except during the addition or removal of materials. Bulk VOC-containing materials storage tanks may be vented as necessary for safety.

- f. In accordance with OAC rule 3745-21-25(D)(4), this emissions unit is subject to the VOC emissions limits in table 2 of OAC rule 3745-21-25 because the facility has reinforced plastic composites production operations and manufactures large reinforced plastic composites parts.

The following VOC emissions limits from table 2 of OAC rule 3745-21-25 apply to this emissions unit:

Type of operation	Resin application method or gel coat type	VOC emissions limit*
Open molding: gel coat	Tooling gel coat	440 lb/ton
	White/off white pigmented gel coat	267 lb/ton
	All other pigmented gel coat	377 lb/ton
	CR/HS or high performance gel coat	605 lb/ton

	Fire retardant gel coat	854 lb/ton
	Clear production gel coat	522 lb/ton

*VOC emissions limits for open molding and centrifugal casting are expressed as pounds of VOC per ton of resin or gel coat (pounds per ton). The operation shall be at or below these values on a twelve-month, rolling average.

- g. The emissions limitations that apply to this emissions unit are identified in Table 3 to subpart WWWW of 40 CFR Part 63 - "Organic HAP Emissions Limits for Existing Open Molding Sources, New Open Molding Sources Emitting Less Than 100 TPY of HAP, and New and Existing Centrifugal Casting and Continuous Lamination/Casting Sources That Emit Less Than 100 TPY of HAP".
- h. Table 15 to subpart WWWW of 40 CFR Part 63 - "Applicability of General Provisions (subpart A) to subpart WWWW of Part 63" identifies which parts of the General Provisions in 40 CFR Part 63.1-16 apply.
- c) **Operational Restrictions**
 - (1) The permittee shall comply with the applicable operational restrictions necessary to demonstrate compliance with 40 CFR Part 63, Subpart WWWW.
 - (2) The permittee shall comply with the applicable operational restrictions necessary to demonstrate compliance with 40 CFR Part 63, Subpart A.
- d) **Monitoring and/or Recordkeeping Requirements**
 - (1) The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the temperature immediately upstream of the incinerator's catalyst bed when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.
 - (2) The permittee shall collect and record the following information for each day:
 - a. All 3-hour blocks of time during which the emissions unit was in operation and the temperature of the exhaust gases at the inlet to the catalyst bed was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated that the emissions unit was in compliance;
 - b. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation;
 - c. Any period of time (start time and end time) when the emissions unit was in operation and the powered roof ventilator in the secondary enclosure was employed;

- d. The name and identification number of each gelcoat employed;
 - e. The number of pounds of each gelcoat employed;
 - f. The styrene content of each gelcoat employed, in percent by weight;
 - g. The methyl methacrylate content of each gelcoat employed, in percent by weight;
 - h. The name and identification number of each VOC-containing cleanup material employed;
 - i. The number of pounds of VOC-containing cleanup materials employed;
 - j. The VOC content of each VOC-containing cleanup material employed, in percent by weight;
 - k. The total number of hours the emissions unit was in operation; and
 - l. The average hourly VOC emission rate for all gelcoats and cleanup materials employed, calculated in accordance with f)(1)a.
- (3) The permittee shall collect and record the following information for each month:
- a. The total VOC emissions, in tons, from all gelcoats and cleanup materials employed;
 - b. The total VOC emissions, in pounds, for each type of gelcoat identified in Table 2 of OAC rule 3745-21-25;
 - c. The total quantity applied, in tons, for each type of gelcoat identified in Table 2 of OAC rule 3745-21-25;
 - d. The actual monthly VOC emissions rate, in pounds of VOC per ton of gelcoat applied, for each type of gelcoat identified in Table 2 of OAC rule 3745-21-25; and
 - e. The rolling, 12-month VOC emissions rate, in pounds of VOC per ton of gelcoat applied, for each type of gelcoat identified in Table 2 of OAC rule 3745-21-25.
- (4) The permittee shall maintain the records necessary to demonstrate compliance with the applicable work practice standards and VOC emissions limit(s) for OAC rule 3745-21-25 in accordance with OAC rules 3745-21-25(E), 3745-21-25(G), 3745-21-25(O) and 3745-21-25(P).
- (5) The permittee shall comply with the applicable monitoring and/or recordkeeping requirements necessary to demonstrate compliance with 40 CFR Part 63, subpart WWWW.
- (6) The permittee shall comply with the applicable monitoring and/or recordkeeping requirements necessary to demonstrate compliance with 40 CFR Part 63, Subpart A.

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports which identify the following:
 - a. All 3-hour blocks of time during which the emissions unit was in operation and the temperature of the exhaust gases at the inlet to the catalyst bed was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated that the emissions unit was in compliance;
 - b. Any day during which the average hourly VOC emission rate for all gelcoats and VOC-containing cleanup materials exceeded 14.7 lbs/hr; and
 - c. Any rolling, 12-month period during which the VOC emissions rate, in pounds of VOC per ton of gelcoat applied, exceeded the limit established for each type of gelcoat identified in Table 2 of OAC rule 3745-21-25.
- (2) The permittee shall submit quarterly summaries which include a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation. These quarterly reports shall be submitted by April 30, July 31, October 31, and January 31, and shall cover the records for the previous calendar quarters.
- (3) The permittee shall submit annual reports which specify the total VOC emissions from the use of gelcoat and VOC-containing cleanup materials from this emissions unit for the previous year. These reports shall be submitted by April 15 of each year. For this reporting requirement, the permittee may provide the required information through the annual emission fee report, required pursuant to OAC rule 3745-78-02, provided that the emission data in the fee report is emissions unit specific.
- (4) The permittee shall submit semi-annual compliance status reports in accordance with OAC rule 3745-21-25(Q).
- (5) The permittee shall comply with the applicable reporting requirements necessary to demonstrate compliance with 40 CFR Part 63, subpart WWWW.
- (6) The permittee shall comply with the applicable reporting requirements necessary to demonstrate compliance with 40 CFR Part 63, Subpart A.

f) Testing Requirements

- (1) Compliance with the emissions limitations in b)(1) of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

VOC emissions from gelcoat application and VOC-containing cleanup materials shall not exceed 14.7 pounds per hour.

Applicable Compliance Method:

Compliance shall be determined using the following equation:

$$\text{VOC emissions} = [(\text{Styrene emissions} + \text{Methyl methacrylate emissions}) * (\text{Capture efficiency}/100) * (1 - \text{Destruction efficiency}/100)] + [(\text{Styrene emissions} + \text{Methyl methacrylate emissions}) * (1 - \text{Capture efficiency}/100)] + [\text{VOC-containing cleanup material emissions}],$$

where;

Styrene emissions = Emissions rate, in pounds of styrene emitted per ton of gelcoat processed, determined using the recordkeeping required in d)(2)e. and d)(2)f., the monomeric styrene content for each gelcoat and the following table¹:

Process	Styrene content in gelcoat, %	Pounds of styrene emitted per ton of gelcoat processed
Gelcoat Controlled Spray Application	<33	$(0.325 * \% \text{styrene}) * 0.90 * 2000$
	≥33	$\{0.73 * [(1.03646 * \% \text{styrene}) - 0.195] * 2000\} - 23$

Methyl methacrylate emissions = Emissions rate, in pounds of methyl methacrylate emitted per ton of gelcoat processed, determined using the recordkeeping required in d)(2)e. and d)(2)g., the methyl methacrylate content for each gelcoat and the following table²:

Process	Methyl methacrylate content in gelcoat, %	Pounds of methyl methacrylate emitted per ton of gelcoat processed
	1	15
	2	30
	3	45
	4	60
	5	75
	6	90

Gelcoat Application	7	105
	8	120
	9	135
	10	150
	11	165
	12	180
	13	195
	14	210
	15	225
	16	240
	17	255
	18	270
	19	285
	≥ 20	0.75 * %methyl methacrylate * 2000

Capture efficiency = the capture efficiency of the enclosures determined during the most recent emissions tests that demonstrated the emissions unit was in compliance (86.0% during test conducted June 12, 2006);

Destruction efficiency = the destruction efficiency of the catalytic incinerator determined during the most recent emissions tests that demonstrated the emissions unit was in compliance (94.7% during test conducted June 12, 2006); and

VOC-containing cleanup material emissions = Emissions rate, in pounds of VOC emitted per pound of cleanup material used, determined using the recordkeeping required in d)(2)i. and d)(2)j.

The monomeric styrene content and methyl methacrylate content of the gelcoat utilized in this process shall be determined in accordance with the gelcoat supplier's MSDS sheets or manufacturer's specification sheets. If the monomer content is provided by the material supplier or manufacturer as a range, the owner or operator shall use the upper limit of the range for determining compliance. If a separate measurement of the total monomer content, such as an analysis of the material by USEPA method 311 of appendix A to 40 CFR Part 63, exceeds the upper limit of the range of the total monomer content provided by

the material supplier or manufacturer, then the owner or operator shall use the measured monomer content to determine compliance.

The VOC content of the VOC-containing cleanup materials utilized in this process shall be determined in accordance with the cleanup material supplier's MSDS sheets.

1 – The information presented in this table is derived from the American National Standards Institute's (ANSI) *“Estimating Emissions Factors from Open Molding and Other Composite Processes”*, October 13, 2009. The lbs of styrene emitted per ton of gelcoat used emission factor from the table has been adjusted to reflect the site-specific emissions factor established during the most recent compliance demonstration (0.096 lb styrene per lb of gelcoat applied for a gelcoat with 33% styrene content). As referenced in AP-42 Chapter 4.4, table 4.4-2, the most current version of the ANSI document should be used to estimate emissions from polyester resin plastic products fabrication operations. Subsequent revisions to the emissions factors in the ANSI document may require a permit modification.

2 – The information presented in this table is taken from the American National Standards Institute's (ANSI) *“Estimating Emissions Factors from Open Molding and Other Composite Processes”*, October 13, 2009. As referenced in AP-42 Chapter 4.4, table 4.4-2, the most current version of the ANSI document should be used to estimate emissions from polyester resin plastic products fabrication operations. Subsequent revisions to the emissions factors in the ANSI document may require a permit modification.

b. Emission Limitation:

VOC emissions from gelcoat application and VOC-containing cleanup materials shall not exceed 27.8 TPY.

Applicable Compliance Method:

Compliance shall be based upon a summation of the monthly records specified in d)(3)a.

c. Emission Limitation:

VOC emissions shall not exceed the limits established for each type of gelcoat in table 2 of OAC rule 3745-21-25.

Applicable Compliance Method:

The permittee shall demonstrate compliance with the applicable VOC emissions limitations from table 2 of OAC rule 3745-21-25 in accordance with OAC rule 3745-21-25(O) and the recordkeeping required in d)(3)e.

d. Emission Limitation:

The catalytic incinerator controlling VOC emissions from this emissions unit shall operate with a minimum destruction efficiency of 94.7% and VOC emissions from this emissions unit shall be reduced overall by a minimum of 80.5%.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the minimum destruction efficiency requirement through emission tests performed in accordance with Methods 1 through 4 and 18, 25 or 25A, as specified in 40 CFR Part 60, Appendix A.

If required, compliance with the minimum VOC overall reduction requirement shall be determined by performing capture efficiency testing on the enclosures associated with this emissions unit. The capture efficiency shall be determined using Methods 204 through 204F, as specified in 40 CFR Part 51, Appendix M

- (2) The permittee shall comply with the applicable testing requirements necessary to demonstrate compliance with 40 CFR Part 63, Subpart WWWW.
- (3) The permittee shall comply with the applicable testing requirements necessary to demonstrate compliance with 40 CFR Part 63, Subpart A.

g) Miscellaneous Requirements

- (1) None.