



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
CUYAHOGA COUNTY**

CERTIFIED MAIL

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 13-03893

Fac ID: 1318544510

DATE: 11/16/2004

Glastic Corporation Cleveland Facility
Robyn Kral
4321 Glenridge Rd.
Cleveland, OH 441212891

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging 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 Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 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. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. 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, Ohio 43215

Sincerely,

Michael W. Ahern, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

cc: USEPA

CLAA



**Permit To Install
Terms and Conditions**

**Issue Date: 11/16/2004
Effective Date: 11/16/2004**

FINAL PERMIT TO INSTALL 13-03893

Application Number: 13-03893
Facility ID: 1318544510
Permit Fee: **\$6700**
Name of Facility: Glastic Corporation Cleveland Facility
Person to Contact: Robyn Kral
Address: 4321 Glenridge Rd.
Cleveland, OH 441212891

Location of proposed air contaminant source(s) [emissions unit(s)]:
**4321 Glenridge Rd.
Cleveland, Ohio**

Description of proposed emissions unit(s):
CH 31 modification of 28 emissions units.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) 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 above described 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

Director

Part I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Permit To Install General Terms and Conditions

1. Monitoring and Related Recordkeeping 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:
 - i. The date, place (as defined in the permit), and time of sampling or measurements.
 - ii. The date(s) analyses were performed.
 - iii. The company or entity that performed the analyses.
 - iv. The analytical techniques or methods used.
 - v. The results of such analyses.
 - vi. 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:
 - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - ii. 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 appropriate Ohio EPA District Office or local air agency. The written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous

calendar quarters. See B.9 below if no deviations occurred during the quarter.

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., 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.
- iv. 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.

2. 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 appropriate Ohio EPA District Office or local air agency 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).

3. 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.

4. 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.

5. Severability Clause

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.

6. 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 reissuance, or modification, or for denial of a permit renewal application.
- 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, reopened, 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, reopening 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.

7. 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 this Permit To Install.

8. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that 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, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

9. Compliance Requirements

- a. 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.
- b. 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:
 - i. 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.
 - ii. 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.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - iv. 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.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency 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:
 - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - ii. 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.

10. Permit To Operate Application

- a. If 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).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the source(s) covered by this permit.

11. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

12. 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.

B. State Only Enforceable Permit To Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. 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 appropriate Ohio EPA District Office or local air agency.
- 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 appropriate Ohio EPA District Office or local air agency. 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., 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.)

3. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

4. Termination of Permit To Install

This permit to install shall terminate within eighteen months of the effective date of the permit to install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete

within a reasonable time a continuing program of installation or modification. 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.

5. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. 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 the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install 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.

6. 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.

7. 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).

8. Construction Compliance Certification

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If applicable, the applicant shall provide Ohio EPA with a written certification (see enclosed form if applicable) that the facility has been constructed in accordance with the Permit To Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

9. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

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., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

C. Permit To Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
OC	187.41
PE	5.12

Part II - FACILITY SPECIFIC TERMS AND CONDITIONS**A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions**

1. The permittee is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP): Reinforced Plastic Composites Production, 40 CFR Part 63 Subpart WWWW. The NESHAP rule became effective on April 21, 2003.
2. Within 120 days after promulgation of 40 CFR 63 Subpart WWWW, Reinforced Plastic Composites Production, the permittee shall submit an Initial Notification Report which certifies whether or not the permittee is subject to the promulgated standard. If the permittee is subject to the final standard, the following information shall also be included in the Initial Notification Report:
 - 2.a the name and mailing address of the permittee;
 - 2.b the physical location of the source if it is different from the mailing address;
 - 2.c identification of the relevant MACT standard and the permittee's compliance date;
 - 2.d a brief description of the nature, design, size, and method of operation of the source, including the operating design capacity and an identification of each emission point of each hazardous air pollutant;
 - 2.e a statement of whether or not the permittee is a major source or an area source according to the promulgated MACT.
3. Within 60 days following completion of the required compliance demonstration activity specified in the 40 CFR 63 Subpart WWWW, Reinforced Plastic Composites Production, the permittee shall submit a notification of compliance status that contains the following information:
 - 3.a the methods used to determine compliance;
 - 3.b the results of any performance tests, opacity or visible emission observations, continuous monitoring system (CMS) performance evaluations, and/or other monitoring procedures or methods that were conducted;
 - 3.c the methods that will be used for determining continuous compliance, including a description of monitoring and reporting requirements and test methods;
 - 3.d the type and quantity of hazardous air pollutants emitted by the source, reported in units and averaging times in accordance with the test methods specified in 40 CFR Subpart WWWW, Reinforced Plastic Composites Production;
 - 3.e an analysis demonstrating whether the affected source is a major source or an area source;
 - 3.f a description of the air pollution control equipment or method for each emission point,

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including each control device or method for each hazardous air pollutant and the control efficiency (percent) for each control device or method; and

- 3.g a statement of whether or not the permittee has complied with the requirements of 40 CFR 63 Subpart WWWW, Reinforced Plastic Composites Production.
4.
 - a. The permittee shall submit each report in Table 14 to 40 CFR Part 63 Subpart WWWW, Reinforced Plastic Composites Production, that applies to the permittee:
 - b. Unless the Director has approved a different schedule for submission of reports under § 63.10(a) of 40 CFR Part 63 Subpart A, the permittee shall submit each report by the date specified in Table 14 to 40 CFR Part 63 Subpart WWWW, Reinforced Plastic Composites Production .
 - c. The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in § 63.5800 of 40 CFR Part 63 Subpart WWWW, Reinforced Plastic Composites Production, and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in § 63.5800.
 - d. The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date that is specified for your affected source in § 63.5800.
 - e. Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.
 - f. Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.
 - g. These reports shall be submitted to the Cleveland Division of Air Quality (Cleveland DAQ) by January 31 and July 31 of each year and shall cover the previous 6-month period.
5. The compliance report must contain the following information:
 - 5.a Company name and address.

- 5.b Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.
 - 5.c Date of the report and beginning and ending dates of the reporting period.
6. If there are no deviations from any emissions limitations (emissions limit, operating limit, opacity limit, and visible emission limit) that apply to the permittee, and there are no deviations from the requirements for work practice standards in Table 4 to 40 CFR Part 63 Subpart WWWW, Reinforced Plastic Composites Production, a statement that there were no deviations from the emissions limitations or work practice standards during the reporting period shall be submitted for the reporting period.
7. For each deviation from an emissions limitation (i.e., emissions limit and operating limit) and for each deviation from the requirements for work practice standards that occurs at an affected source where the permittee is not using a CMS to comply with the organic HAP emissions limitations or work practice standards in this subpart, the compliance report must contain the following information:
 - 7.a Company name and address.
 - 7.b Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.
 - 7.c Date of the report and beginning and ending dates of the reporting period.
 - 7.d The total operating time of each affected source during the reporting period.
 - 7.e Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.
8. Record Keeping Requirements

The permittee shall maintain records on process and emissions data and in the following format and duration:

 - 8.a A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirements in 40 CFR Part 63 Subpart WWWW, Reinforced Plastic Composites Production, Section § 63.10(b)(2)(xiv).
 - 8.b Records of performance tests, design, and performance evaluations
 - 8.c The permittee shall keep all data, assumptions, and calculations used to determine organic HAP emissions factors or average organic HAP contents for operations listed in Tables 3, 5, and 7 to 40 CFR Part 63 Subpart WWWW, Reinforced Plastic Composites Production.

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- 8.d The permittee shall keep a certified statement that you are in compliance with the work practice requirements in Table 4 to 40 CFR Part 63 Subpart WWWW, Reinforced Plastic Composites Production, as applicable.
 - 8.e The permittee shall maintain all applicable records in such a manner that they can be readily accessed and are suitable for inspection
 - 8.f The permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
 - 8.g The permittee shall keep each record onsite for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee can keep the records offsite for the remaining 3 years.
 - 8.h The permittee shall keep records in hard copy or computer readable form including, but not limited to, paper, microfilm, computer floppy disk, magnetic tape, or microfiche.
9. Terms and Conditions for Subpart WWWW - National Emissions Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production

40 CFR - CHAPTER I - PART 63

Subpart WWWW - National Emissions Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production

§§ 63.5780 What is the purpose of this subpart?

This subpart establishes national emissions standards for hazardous air pollutants (NESHAP) for reinforced plastic composites production. This subpart also establishes requirements to demonstrate initial and continuous compliance with the hazardous air pollutants (HAP) emissions standards.

§§ 63.5785 Am I subject to this subpart?

(a) You are subject to this subpart if you own or operate a reinforced plastic composites production facility that is located at a major source of HAP emissions. Reinforced plastic composites production is limited to operations in which reinforced and/or nonreinforced plastic composites or plastic molding compounds are manufactured using thermoset resins and/or gel coats that contain styrene to produce plastic composites. The resins and gel coats may also contain materials designed to enhance the chemical, physical, and/or thermal properties of the product. Reinforced plastic composites production also includes cleaning, mixing, HAP-containing materials storage, and repair operations associated with the production of plastic composites.

(b) You are not subject to this subpart if your facility only repairs reinforced plastic composites. Repair includes the non-routine manufacture of individual components or parts intended to repair a larger item as defined in §§

63.5935

(c) You are not subject to this subpart if your facility is a research and development facility as defined in section 112(c)(7) of the Clean Air Act (CAA).

(d) You are not subject to this subpart if your reinforced plastic composites operations use less than 1.2 tons per year (tpy) of thermoset resins and gel coats that contain styrene combined.

§§ 63.5787 What if I also manufacture fiberglass boats or boat parts?

(a) If your source meets the applicability criteria in §§ 63.5785, and is not subject to the Boat Manufacturing NESHAP (40 CFR part 63, subpart VVVV), you are subject to this subpart regardless of the final use of the parts you manufacture.

(b) If your source is subject to 40 CFR part 63, subpart VVVV, and all the reinforced plastic composites you manufacture are used in manufacturing your boats, you are not subject to this subpart.

(c) If you are subject to 40 CFR part 63, subpart VVVV, and meet the applicability criteria in §§ 63.5785, and produce reinforced plastic composites that are not used in fiberglass boat manufacture at your facility, all operations associated with the manufacture of the reinforced plastic composites parts that are not used in fiberglass boat manufacture at your facility are subject to this subpart, except as noted in paragraph (d) of this section.

(d) Facilities potentially subject to both this subpart and 40 CFR part 63, subpart VVVV may elect to have the operations in paragraph (c) of this section covered by 40 CFR part 63, subpart VVVV, in lieu of this subpart, if they can demonstrate that this will not result in any organic HAP emissions increase compared to complying with this subpart.

§§ 63.5790 What parts of my plant does this subpart cover?

(a) This subpart applies to each new or existing affected source at reinforced plastic composites production facilities.

(b) The affected source consists of all parts of your facility engaged in the following operations: Open molding, closed molding, centrifugal casting, continuous lamination, continuous casting, polymer casting, pultrusion, sheet molding compound (SMC) manufacturing, bulk molding compound (BMC) manufacturing, mixing, cleaning of equipment used in reinforced plastic composites manufacture, HAP-containing materials storage, and repair operations on parts you also manufacture.

(c) The following operations are specifically excluded from any requirements in this subpart: Application of mold sealing and release agents, mold stripping and cleaning, repair of parts that you did not manufacture, including non-routine manufacturing of parts, personal activities that are not part of the manufacturing operations (such as hobby shops on military bases), prepreg materials as defined in §§ 63.5935, non-gel coat surface coatings, repair or production materials that do not contain resin or gel coat, and research and development operations as defined in section 112(c)(7) of the CAA.

(d) Production resins that must meet military specifications are allowed to meet the organic HAP limit contained in that specification. In order for this exemption to be used, you must supply to the permitting authority the specifications certified as accurate by the military procurement officer, and those specifications must state a requirement for a specific resin, or a specific resin HAP content. Production resins for which this exemption is used must be applied with nonatomizing resin application equipment unless you can demonstrate this is infeasible. You must keep a record of the resins for which you are using this exemption.

§§ 63.5795 How do I know if my reinforced plastic composites production facility is a new affected source or an existing affected source?

(a) A reinforced plastic composites production facility is a new affected source if it meets all the criteria in paragraphs (a)(1) and (2) of this section.

(1) You commence construction of the affected source after August 2, 2001.

(2) You commence construction, and no other reinforced plastic composites production affected source exists at that site.

(b) For the purposes of this subpart, an existing affected source is any affected source that is not a new affected source.

§§ 63.5796 What are the organic HAP emissions factor equations in Table 1 to this subpart, and how are they used in this subpart?

Emissions factors are used in this subpart to determine compliance with certain organic HAP emissions limits in Tables 3 and 5 to this subpart. You may use the equations in Table 1 to this subpart to calculate your emissions factors. Equations are available for each open molding operation and centrifugal casting operation and have units of pounds of organic HAP emitted per ton (lb/ton) of resin or gel coat applied. These equations are intended to provide a method for you to demonstrate compliance without the need to conduct for a HAP emissions test. In lieu of these equations, you can elect to use site-specific organic HAP emissions factors to demonstrate compliance provided your site-specific organic HAP emissions factors are incorporated in the facility's air emissions permit and are based on actual facility HAP emissions test data. You may also use the organic HAP emissions factors calculated using the equations in Table 1 to this subpart, combined with resin and gel coat use data, to calculate your organic HAP emissions.

§§ 63.5797 How do I determine the organic HAP content of my resins and gel coats?

In order to determine the organic HAP content of resins and gel coats, you may rely on information provided by the material manufacturer, such as manufacturer's formulation data and material safety data sheets (MSDS), using the procedures specified in paragraphs (a) through (c) of this section, as applicable.

(a) Include in the organic HAP total each organic HAP that is present at 0.1 percent by mass or more for Occupational Safety and Health Administration-defined carcinogens, as specified in 29 CFR 1910.1200(d)(4) and at 1.0 percent by mass or more for other organic HAP compounds.

(b) If the organic HAP content is provided by the material supplier or manufacturer as a range, you must use the upper limit of the range for determining compliance. If a separate measurement of the total organic HAP content, such as an analysis of the material by EPA Method 311 of appendix A to 40 CFR part 63, exceeds the upper limit of the range of the total organic HAP content provided by the material supplier or manufacturer, then you must use the measured organic HAP content to determine compliance.

(c) If the organic HAP content is provided as a single value, you may use that value to determine compliance. If a separate measurement of the total organic HAP content is made and is less than 2 percentage points higher than the value for total organic HAP content provided by the material supplier or manufacturer, then you still may use the provided value to demonstrate compliance. If the measured total organic HAP content exceeds the provided value by 2 percentage points or more, then you must use the measured organic HAP content to determine compliance.

§§ 63.5798 What if I want to use, or I manufacture, an application technology (new or existing) whose organic HAP emissions characteristics are not represented by the equations in Table 1 to this subpart?

If you wish to use a resin or gel coat application technology (new or existing), whose emission characteristics are not represented by the equations in Table 1 to this subpart, you may use the procedures in paragraphs (a) or (b) of this section to establish an organic HAP emissions factor. This organic HAP emissions factor may then be used to determine compliance with the emission limits in this subpart, and to calculate facility organic HAP emissions.

(a) Perform a organic HAP emissions test to determine a site-specific organic HAP emissions factor using the test procedures in §§ 63.5850.

(b) Submit a petition to the Administrator for administrative review of this subpart. This petition must contain a

description of the resin or gel coat application technology and supporting organic HAP emissions test data obtained using EPA test methods or their equivalent. The emission test data should be obtained using a range of resin or gel coat HAP contents to demonstrate the effectiveness of the technology under the different conditions, and to demonstrate that the technology will be effective at different sites. We will review the submitted data, and, if appropriate, update the equations in Table 1 to this subpart.

§§ 63.5799 How do I calculate my facility's organic HAP emissions on a tpy basis for purposes of determining which paragraphs of §§ 63.5805 apply?

To calculate your facility's organic HAP emissions in tpy for purposes of determining which paragraphs in §§ 63.5805 apply to you, you must use the procedures in either paragraph (a) of this section for new facilities prior to startup, or paragraph (b) of this section for existing facilities and new facilities after startup. You are not required to calculate or report emissions under this section if you are an existing facility that does not have centrifugal casting or continuous lamination/casting operations, or a new facility that does not have any of the following operations: Open molding, centrifugal casting, continuous lamination/casting, pultrusion, SMC and BMC manufacturing, and mixing. Emissions calculation and emission reporting procedures in other sections of this subpart still apply. Calculate organic HAP emissions prior to any add-on control device, and do not include organic HAP emissions from any resin or gel coat used in operations subject to the Boat Manufacturing NESHAP, 40 CFR part 63, subpart VVVV, or from the manufacture of large parts as defined in §§ 63.5805(d)(2). For centrifugal casting operations at existing facilities, do not include any organic HAP emissions where resin or gel coat is applied to an open centrifugal mold using open molding application techniques. Table 1 and the Table 1 footnotes to this subpart present more information on calculating centrifugal casting organic HAP emissions. The timing and reporting of these calculations is discussed in paragraph (c) of this section.

(a) For new facilities prior to startup, calculate a weighted average organic HAP emissions factor for the operations specified in §§ 63.5805(b) and (d) on a lbs/ton of resin and gel coat basis. Base the weighted average on your projected operation for the 12 months subsequent to facility startup. Multiply the weighted average organic HAP emissions factor by projected resin use over the same period. You may calculate your organic HAP emissions factor based on the factors in Table 1 to this subpart, or you may use any HAP emissions factor approved by us, such as factors from the Compilation of Air Pollutant Emissions Factors, Volume I: Stationary Point and Area Sources (AP-42), or organic HAP emissions test data from similar facilities.

(b) For existing facilities and new facilities after startup, you may use the procedures in either paragraph (b)(1) or (2) of this section. If the emission factors for an existing facility have changed over the period of time prior to their initial compliance date due to incorporation of pollution-prevention control techniques, existing facilities may base the average emission factor on their operations as they exist on the compliance date. If an existing facility has accepted an enforceable permit limit of less than 100 tons per year of HAP, and can demonstrate that they will operate at that level subsequent to the compliance date, they can be deemed to be below the 100 tpy threshold.

(1) *Use a calculated emission factor.* Calculate a weighted average organic HAP emissions factor on a lbs/ton of resin and gel coat basis. Base the weighted average on the prior 12 months of operation. Multiply the weighted average organic HAP emissions factor by resin and gel coat use over the same period. You may calculate this organic HAP emissions factor based on the equations in Table 1 to this subpart, or you may use any organic HAP emissions factor approved by us, such as factors from AP-42, or site-specific organic HAP emissions factors if they are supported by HAP emissions test data.

(2) *Conduct performance testing.* Conduct performance testing using the test procedures in §§ 63.5850 to determine a site-specific organic HAP emissions factor in units of lbs/ton of resin and gel coat used. Conduct the test under conditions expected to result in the highest possible organic HAP emissions. Multiply this factor by

annual resin and gel coat use to determine annual organic HAP emissions. This calculation must be repeated and reported annually.

(c) Existing facilities must initially perform this calculation based on their 12 months of operation prior to April 21, 2003, and include this information with their initial notification report. Existing facilities must repeat the calculation based on their resin and gel coat use in the 12 months prior to their initial compliance date, and submit this information with their initial compliance report. After their initial compliance date, existing and new facilities must recalculate organic HAP emissions over the 12-month period ending June 30 or December 31, whichever date is the first date following their compliance date specified in §§ 63.5800. Subsequent calculations should cover the periods in the semiannual compliance reports.

§§ 63.5800 When do I have to comply with this subpart?

You must comply with the standards in this subpart by the dates specified in Table 2 to this subpart. Facilities meeting a organic HAP emissions standard based on a 12-month rolling average must begin collecting data on the compliance date in order to demonstrate compliance.

§§ 63.5805 What standards must I meet to comply with this subpart?

You must meet the requirements of paragraphs (a) through (h) of this section that apply to you. You may elect to comply using any options to meeting these standards described in §§§§ 63.5810 through 63.5830. Use the procedures in §§ 63.5799 to determine if you meet or exceed the 100 tpy threshold.

(a) If you have an existing facility that does not have any centrifugal casting or continuous lamination/casting operations, or an existing facility that does have centrifugal casting or continuous lamination/casting operations, but the combination of all centrifugal casting and continuous lamination/casting operations emit less than 100 tpy of HAP, you must meet the annual average organic HAP emissions limits in Table 3 to this subpart and the work practice standards in Table 4 to this subpart that apply to you.

(b) If you have an existing facility that emits 100 tpy or more of HAP from the combination of all centrifugal casting and continuous lamination/casting operations, you must reduce the total organic HAP emissions from these operations by at least 95 percent by weight and meet any applicable work practice standards in Table 4 to this subpart that apply to you. Operations other than centrifugal casting, and continuous lamination/casting, must meet the requirements in Tables 3 and 4 to this subpart. As an alternative to meeting 95 percent by weight, you may meet the organic HAP emissions limits in Table 5 to this subpart. If you have a continuous lamination/casting operation, that operation may alternatively meet a organic HAP emissions limit of 1.47 lbs/ton of neat resin plus and neat gel coat plus applied. For centrifugal casting, the percent reduction requirement does not apply to organic HAP emissions that occur during resin application onto an open centrifugal casting mold using open molding application techniques.

(c) If you have a new facility that emits less than 100 tpy of HAP from the combination of all open molding, centrifugal casting, continuous lamination/casting, pultrusion, SMC manufacturing, mixing, and BMC manufacturing, you must meet the annual average organic HAP emissions limits in Table 3 to this subpart and the work practice standards in Table 4 to this subpart that apply to you.

(d)(1) Except as provided in paragraph (d)(2) of this section, if you have a new facility that emits 100 tpy or more of HAP from the combination of all open molding, centrifugal casting, continuous lamination/casting, pultrusion, SMC manufacturing, mixing, and BMC manufacturing, you must reduce the total organic HAP emissions from these operations by at least 95 percent by weight and meet any applicable work practice standards in Table 4 to this subpart that apply to you. As an alternative to meeting 95 percent by weight, you may meet the organic HAP emissions limits in Table 5 to this subpart. If you have a continuous lamination/casting operation, that operation may alternatively meet a organic HAP emissions limit of 1.47 lbs/ton

of neat resin plus and neat gel coat plus applied.

(2)(i) If your new facility manufactures large reinforced plastic composites parts using open molding or pultrusion operations, the specific open molding and pultrusion operations used to produce large parts are not required to reduce HAP emissions by 95 weight percent, but must meet the emission limits in Table 3 to this subpart.

(ii) A large open molding part is defined as a part that, when the final finished part is enclosed in the smallest rectangular six-sided box into which the part can fit, the total interior volume of the box exceeds 250 cubic feet, or any interior sides of the box exceed 50 square feet.

(iii) A large pultruded part is a part that exceeds an outside perimeter of 24 inches or has more than 350 reinforcements.

(e) If you have a new or existing facility subject to paragraphs (a) or (c) of this section at their initial compliance date, that subsequently meets or exceeds the 100 tpy threshold in any calendar year, you must notify your permitting authority in your compliance report. You may at the same time request a one-time exemption from the requirements of paragraphs (b) or (d) of this section in your compliance report if you can demonstrate all of the following: (1) The exceedance of the threshold was due to circumstances that will not to be repeated. (2) The average annual organic HAP emissions from the potentially affected operations for the last 3 years were below 100 tpy. (3) Projected organic HAP emissions for the next calendar year are below 100 tpy, based on projected resin and gel coat use and the HAP emission factors calculated according to the procedures in §§ 63.5799

(f) If you apply for an exemption in paragraph (e) of this section, and subsequently exceed the HAP emission thresholds specified in paragraphs (a) or (c) of this section over the next 12-month period, you must notify the permitting authority in your semi-annual report, the exemption is removed, and your facility must comply with paragraphs (b) or (d) of this section within 3 years from the time your organic HAP emissions first exceeded the threshold.

(g) If you have repair operations subject to this subpart as defined in §§ 63.5785, these repair operations must meet the requirements in Tables 3 and 4 to this subpart, and are not required to meet the 95 percent organic HAP emissions reduction requirements in paragraphs (b) or (d) of this section. (h) If you use an add-on control device to comply with this subpart, you must meet all requirements contained in 40 CFR part 63, subpart SS.

§§ 63.5810 What are my options for meeting the standards for open molding and centrifugal casting operations at new and existing sources?

You must use one of the following methods in paragraphs (a) through (d) of this section to meet the standards in §§ 63.5805. When you are complying with an emission limit in Tables 3 or 5 to this subpart, you may use any control method that reduces organic HAP emissions, including reducing resin and gel coat organic HAP content, changing to nonatomized mechanical application, covered curing techniques, and routing part or all of your emissions to an add-on control. The necessary calculations must be completed within 30 days after the end of each month. You may switch between the compliance options in paragraphs (a) through (d) of this section. When you change to an option based on a 12-month rolling average, you must base the average on the previous 12 months of data calculated using the compliance option you are currently using unless you were using the compliant materials option in paragraph (d) of this section. In this case, you must immediately begin collecting resin and gel coat use data and demonstrate compliance 12 months after changing options.

(a) *Meet the individual organic HAP emissions limits for each operation.* Demonstrate that you meet the individual organic HAP emissions limits for each open molding operation and for each centrifugal casting operation type in Tables 3, or 5 to this subpart that apply to you. This is done in two steps. First, determine an organic HAP factor for each individual resin and gel coat, application method, and control method you use in a particular operation. Second, calculate, for each particular operation type, a weighted average of those organic

HAP emissions factors based on resin and gel coat use. Your calculated organic HAP emissions factor must either be at or below the applicable organic HAP emissions limit in Tables 3 or 5 to this subpart based on a 12-month rolling average. Use the procedures described in paragraphs (a)(1) through (3) of this section to calculate average organic HAP emissions factors for each of your operations.

(1) Calculate your actual organic HAP emissions factor for each different process stream within each operation type. A process stream is defined as each individual combination of resin or gel coat, application technique, and control technique. Process streams within operations types are considered different from each other if any of the following three characteristics vary: The neat resin plus or neat gel coat plus organic HAP content, the application technique, or the control technique. You must calculate organic HAP emissions factors for each different process stream by using the appropriate equations in Table 1 to this subpart for open molding and for centrifugal casting, or site-specific organic HAP emissions factors discussed in §§ 63.5796. If you want to use vapor suppressants to meet the organic HAP emissions limit for open molding, you must determine the vapor suppressant effectiveness by conducting testing according to the procedures specified of appendix A to subpart WWW of 40 CFR part 63. If you want to use an add-on control device to meet the organic HAP emissions limit, you must determine the add-on control factor by conducting capture and control efficiency testing, using the procedures specified in §§ 63.5850. The organic HAP emissions factor calculated from the equations in Table 1 to this subpart, or site-specific emissions factors, is multiplied by the add-on control factor to calculate the organic HAP emissions factor after control. Use Equation 1 of this section to calculate the add-on control factor used in the organic HAP emissions factor equations.

(Equation 1)

(Figure)

See Attachment A for Equation 1

Where:

Percent Control Efficiency=a value calculated from organic HAP emissions test measurements made according to the requirements of §§ 63.5850 to this subpart

(2) Calculate your actual operation organic HAP emissions factor for the last 12 months for each open molding operation type and for each centrifugal casting operation type by calculating the weighted average of the individual process stream organic HAP emissions factors within each respective operation. To do this, sum the product of each individual organic HAP emissions factor calculated in paragraph (a)(1) of this section and the amount of neat resin plus and neat gel coat plus usage that correspond to the individual factors and divide the numerator by the total amount of neat resin plus and neat gel coat plus used in that operation type. Use Equation 2 of this section to calculate your actual organic HAP emissions factor for each open molding operation type and each centrifugal casting operation type.

(Equation 2)

(Figure)

See Attachment A for Equation 2

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Where:

Actual Process Stream E_{Fi} =actual organic HAP emissions factor for process stream i , lbs/ton

$Material_i$ =neat resin plus or neat gel coat plus used during the last 12 calendar months for process stream i , tons

n =number of process streams where you calculated an organic HAP emissions factor

(3) Compare each organic HAP emissions factor calculated in paragraph (b)(2) of this section with its corresponding organic HAP emissions limit in Tables 3 or 5 to this subpart. If all emissions factors are equal to or less than their corresponding emission limits, then you are in compliance.

(b) *HAP Emissions factor averaging option.* Demonstrate each month that you meet each weighted average of the organic HAP emissions limits in Tables 3 or 5 to this subpart that apply to you. When using this option, you must demonstrate compliance with the weighted average organic HAP emissions limit for all your open molding operations, and then separately demonstrate compliance with the weighted average organic HAP emissions limit for all your centrifugal casting operations. Open molding operations and centrifugal casting operations may not be averaged with each other.

(1) Each month calculate the weighted average organic HAP emissions limit for all open molding operations and the weighted average organic HAP emissions limit for all centrifugal casting operations for your facility for the last 12-month period to determine the organic HAP emissions limit you must meet. To do this, multiply the individual organic HAP emissions limits in Tables 3 or 5 to this subpart for each open molding (centrifugal casting) operation type by the amount of neat resin plus or neat gel coat plus used in the last 12 months for each open molding (centrifugal casting) operation type, sum these results, and then divide this sum by the total amount of neat resin plus and neat gel coat plus used in open molding (centrifugal casting) over the last 12 months. Use Equation 3 of this section to calculate the weighted average organic HAP emissions limit for all open molding operations and separately for all centrifugal casting operations.

(Equation 3)

(Figure)

See Attachment A for Equation 3

Where:

E_{Li} =organic HAP emissions limit for operation type i , lbs/ton from Tables 3, 5 or 7 to this subpart

$Material_i$ =neat resin plus or neat gel coat plus used during the last 12-month period for operation type i , tons

n =number of operations

(2) Each month calculate your actual weighted average organic HAP emissions factor for open molding and centrifugal casting. To do this, multiply your actual open molding (centrifugal casting) operation organic HAP emissions factors and the amount of neat resin plus and neat gel coat plus used in each open molding (centrifugal casting) operation type, sum the results, and divide this sum by the total amount of neat resin plus and neat gel coat plus used in open molding (centrifugal casting) operations. You must calculate your actual individual HAP emissions factors for each operation type as described in paragraphs (a)(1) and (2) of this section. Use Equation

4 of this section to calculate your actual weighted average organic HAP emissions factor.

(Equation 4)

(Figure)

See Attachment A for Equation 4

Where:

Actual Individual EFi=Actual organic HAP emissions factor for operation type i, lbs/ton

Materiali=neat resin plus or neat gel coat plus used during the last 12 calendar months for operation type i, tons

n=number of operations

(3) Compare the values calculated in paragraphs (b)(1) and (2) of this section. If each 12-month rolling average organic HAP emissions factor is less than or equal to the corresponding 12-month rolling average organic HAP emissions limit, then you are in compliance.

(c) *If you have multiple operation types, meet the organic HAP emissions limit for one operation type, and use the same resin(s) for all operations of that resin type.* If you have more than one operation type, you may meet the emission limit for one of those operations, and use the same resin(s) in all other open molding and centrifugal casting operations.

(1) This option is limited to resins of the same type. The resin types for which this option may be used are noncorrosion-resistant, corrosion-resistant and/or high strength, and tooling.

(2) For any combination of manual resin application, mechanical resin application, filament application, or centrifugal casting, you may elect to meet the organic HAP emissions limit for any one of these operations and use that operation's same resin in all of the resin operations listed in this paragraph. Table 7 to this subpart presents the possible combinations based on a facility selecting the application process that results in the highest allowable organic HAP content resin. If your resin organic HAP content is below the applicable values shown in Table 7 to this subpart, you are in compliance.

(3) You may also use a weighted average organic HAP content for each operation described in paragraph (c)(2) of this section. Calculate the weighted average organic HAP content monthly. Use Equation 2 in §§ 63.5810(a)(2) except substitute organic HAP content for organic HAP emissions factor. You are in compliance if the weighted average organic HAP content based on the last 12 months of resin use is less than or equal to the applicable organic HAP contents in Table 7 to this subpart.

(4) You may simultaneously use the averaging provisions in paragraph (b) of this section to demonstrate compliance for any operations and/or resins you do not include in your compliance demonstrations in paragraphs (c)(2) and (3) of this section. However, any resins for which you claim compliance under the option in paragraphs (c)(2) and (3) of this section may not be included in any of the averaging calculations described in paragraphs (a) or (b) of this section used for resins for which you are not claiming compliance under this option.

(d) Use resins and gel coats that do not exceed the maximum organic HAP contents shown in Table 3 to this subpart.

§§ 63.5820 What are my options for meeting the standards for continuous lamination/casting operations?

You must use one or more of the options in paragraphs (a) through (d) of this section to meet the standards in §§ 63.5805. Use the calculation procedures in §§§§ 63.5865 through 63.5890.

(a) *Compliant line option.* Demonstrate that each continuous lamination line and each continuous casting line complies with the applicable standard.

(b) *Averaging option.* Demonstrate that all continuous lamination and continuous casting lines combined, comply with the applicable standard.

(c) *Add-on control device option.* If your operation must meet the 58.5 weight percent organic HAP emissions reduction limit in Table 3 to this subpart, you have the option of demonstrating that you achieve 95 percent reduction of all wet-out area organic HAP emissions.

(d) *Combination option.* Use any combination of options in paragraphs (a) and (b) of this section or, for affected sources at existing facilities, any combination of options in paragraphs (a), (b), and (c) of this section (in which one or more lines meet the standards on their own, two or more lines averaged together meet the standards, and one or more lines have their wet-out areas controlled to a level of 95 percent).

§§ 63.5830 What are my options for meeting the standards for pultrusion operations subject to the 60 weight percent organic HAP emissions reductions requirement?

You must use one or more of the options in paragraphs (a) through (e) of this section to meet the 60 weight percent organic HAP emissions limit in Table 3 to this subpart, as required in §§ 63.5805.

(a) Achieve an overall reduction in organic HAP emissions of 60 weight percent by capturing the organic HAP emissions and venting them to a control device or any combination of control devices. Conduct capture and destruction efficiency testing as specified in 63.5850 to this subpart to determine the percent organic HAP emissions reduction.

(b) Design, install, and operate wet area enclosures and resin drip collection systems on pultrusion machines that meet the criteria in paragraphs (b)(1) through (10) of this section.

(1) The enclosure must cover and enclose the open resin bath and the forming area in which reinforcements are pre-wet or wet-out and moving toward the die(s). The surfaces of the enclosure must be closed except for openings to allow material to enter and exit the enclosure.

(2) For open bath pultrusion machines with a radio frequency pre-heat unit, the enclosure must extend from the beginning of the resin bath to within 12.5 inches or less of the entrance of the radio frequency pre-heat unit. If the stock that is within 12.5 inches or less of the entrance to the radio frequency pre-heat unit has any drip, it must be enclosed. The stock exiting the radio frequency pre-heat unit is not required to be in an enclosure if the stock has no drip between the exit of the radio frequency pre-heat unit to within 0.5 inches of the entrance of the die.

(3) For open bath pultrusion machines without a radio frequency pre-heat unit, the enclosure must extend from the beginning of the resin bath to within 0.5 inches or less of the die entrance.

(4) For pultrusion lines with a pre-wet area prior to direct die injection, the enclosure must extend from the point at which the resin is applied to the reinforcement to within 12.5 inches or less of the entrance of the die(s). If the stock that is within 12.5 inches or less of the entrance to the die has any drip, it must be enclosed.

(5) The total open area of the enclosure must not exceed two times the cross sectional area of the puller window(s) and must comply with the requirements in paragraphs (b)(5)(i) through (iii) of this section.

(i) All areas that are open need to be included in the total open area calculation with the exception of access panels, doors, and/or hatches that are part of the enclosure.

(ii) The area that is displaced by entering reinforcement or exiting product is considered open.

(iii) Areas that are covered by brush covers are considered closed.

(6) Open areas for level control devices, monitoring devices, agitation shafts, and fill hoses must have no more than 1.0 inch clearance.

(7) The access panels, doors, and/or hatches that are part of the enclosure must close tightly. Damaged access panels, doors, and/or hatches that do not close tightly must be replaced.

(8) The enclosure may not be removed from the pultrusion line, and access panels, doors, and/or hatches that are part of the enclosure must remain closed whenever resin is in the bath, except for the time period discussed in

paragraph (b)(9) of this section.

(9) The maximum length of time the enclosure may be removed from the pultrusion line or the access panels, doors, and/or hatches and may be open, is 30 minutes per 8 hour shift, 45 minutes per 12 hour shift, or 90 minutes per day if the machine is operated for 24 hours in a day. The time restrictions do not apply if the open doors or panels do not cause the limit of two times the puller window area to be exceeded. Facilities may average the times that access panels, doors, and/or hatches are open across all operating lines. In that case the average must not exceed the times shown in this paragraph (b)(9). All lines included in the average must have operated the entire time period being averaged.

(10) No fans, blowers, and/or air lines may be allowed within the enclosure. The enclosure must not be ventilated.

(c) Use direct die injection pultrusion machines with resin drip collection systems that meet all the criteria specified in paragraphs (c)(1) through (3) of this section.

(1) All the resin that is applied to the reinforcement is delivered directly to the die.

(2) No exposed resin is present, except at the face of the die.

(3) Resin drip is captured in closed piping and recycled directly to the resin injection chamber.

(d) Use a preform injection system that meets the definition in §§ 63.5935

(e) Use any combination of options in paragraphs (a) through (d) of this section in which different pultrusion lines comply with different options described in paragraphs (a) through (d) of this section, and

(1) Each individual pultrusion machine meets the 60 percent reduction requirement, or

(2) The weighted average reduction based on resin throughout of all machines combined is 60 percent. For purposes of the average percent reduction calculation, wet area enclosures reduce organic HAP emissions by 60 percent, and direct die injection and preform injection reduce organic HAP emissions by 90 percent.

§§ 63.5835 What are my general requirements for complying with this subpart?

(a) You must be in compliance at all times with the work practice standards in Table 4 to this subpart, as well as the organic HAP emissions limits in Tables 3, or 5, or the organic HAP content limits in Table 7 to this subpart, as applicable, that you are meeting without the use of add-on controls.

(b) You must be in compliance with all organic HAP emissions limits in this subpart that you meet using add-on controls, except during periods of startup, shutdown, and malfunction.

(c) You must always operate and maintain your affected source, including air pollution control and monitoring equipment, according to the provisions in §§ 63.6(e)(1)(i).

(d) You must develop and implement a written startup, shutdown, and malfunction plan according to the provisions in §§ 63.6(e)(3) for any organic HAP emissions limits you meet using an add-on control.

§§ 63.5840 By what date must I conduct a performance test or other initial compliance demonstration?

You must conduct performance tests, performance evaluations, design evaluations, capture efficiency testing, and other initial compliance demonstrations by the compliance date specified in Table 2 to this subpart, with three exceptions. Open molding and centrifugal casting operations that elect to meet a organic HAP emissions limit on a 12-month rolling average must initiate collection of the required data on the compliance date, and demonstrate compliance 1 year after the compliance date. New sources that use add-on controls to initially meet compliance must demonstrate compliance within 180 days after their compliance date.

§§ 63.5845 When must I conduct subsequent performance tests?

You must conduct a performance test every 5 years following the initial performance test for any standard you meet with an add-on control device.

§§ 63.5850 How do I conduct performance tests, performance evaluations, and design evaluations?

(a) If you are using any add-on controls to meet a organic HAP emissions limit in this subpart, you must conduct each performance test, performance evaluation, and design evaluation in 40 CFR part 63, subpart SS, that applies

to you. The basic requirements for performance tests, performance evaluations, and design evaluations are presented in Table 6 to this subpart.

(b) Each performance test must be conducted according to the requirements in §§ 63.7(e)(1) and under the specific conditions that 40 CFR part 63, subpart SS, specifies.

(c) Each performance evaluation must be conducted according to the requirements in §§ 63.8(e) as applicable and under the specific conditions that 40 CFR part 63, subpart SS, specifies.

(d) You may not conduct performance tests or performance evaluations during periods of startup, shutdown, or malfunction, as specified in §§ 63.7(e)(1).

(e) You must conduct the control device performance test using the emission measurement methods specified in paragraphs (e)(1) through (5) of this section.

(1) Use either Method 1 or 1A of appendix A to 40 CFR part 60, as appropriate, to select the sampling sites.

(2) Use Method 2, 2A, 2C, 2D, 2F or 2G of appendix A to 40 CFR part 60, as appropriate, to measure gas volumetric flow rate.

(3) Use Method 18 of appendix A to 40 CFR part 60 to measure organic HAP emissions or use Method 25A of appendix A to 40 CFR part 60 to measure total gaseous organic emissions as a surrogate for total organic HAP emissions. If you use Method 25A, you must assume that all gaseous organic emissions measured as carbon are organic HAP emissions. If you use Method 18 and the number of organic HAP in the exhaust stream exceeds five, you must take into account the use of multiple chromatographic columns and analytical techniques to get an accurate measure of at least 90 percent of the total organic HAP mass emissions. Do not use Method 18 to measure organic HAP emissions from a combustion device; use instead Method 25A and assume that all gaseous organic mass emissions measured as carbon are organic HAP emissions.

(4) You may use American Society for Testing and Materials (ASTM) D6420-99 (available for purchase from at least one of the following addresses: 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959; or University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106.) in lieu of Method 18 of 40 CFR part 60, appendix A, under the conditions specified in paragraphs (c)(4)(i) through (iii) of this section.

(i) If the target compound(s) is listed in Section 1.1 of ASTM D6420-99 and the target concentration is between 150 parts per billion by volume and 100 parts per million by volume.

(ii) If the target compound(s) is not listed in Section 1.1 of ASTM D6420-99, but is potentially detected by mass spectrometry, an additional system continuing calibration check after each run, as detailed in Section 10.5.3 of ASTM D6420-99, must be followed, met, documented, and submitted with the performance test report even if you do not use a moisture condenser or the compound is not considered soluble.

(iii) If a minimum of one sample/analysis cycle is completed at least every 15 minutes.

(5) Use the procedures in EPA Method 3B of appendix A to 40 CFR part 60 to determine an oxygen correction factor if required by §§ 63.997(e)(2)(iii)(C). You may use American Society of Mechanical Engineers (ASME) PTC 19-10-1981-Part 10 (available for purchase from ASME, P.O. Box 2900, 22 Law Drive, Fairfield, New Jersey, 07007-2900, or online at www.asme.org/catalog) as an alternative to EPA Method 3B of appendix A to 40 CFR part 60.

(f) The control device performance test must consist of three runs and each run must last at least 1 hour. The production conditions during the test runs must represent normal production conditions with respect to the types of parts being made and material application methods. The production conditions during the test must also represent maximum potential emissions with respect to the organic HAP content of the materials being applied and the material application rates.

(g) If you are using a concentrator/oxidizer control device, you must test the combined flow upstream of the concentrator, and the combined outlet flow from both the oxidizer and the concentrator to determine the overall control device efficiency. If the outlet flow from the concentrator and oxidizer are exhausted in separate stacks,

you must test both stacks simultaneously with the inlet to the concentrator to determine the overall control device efficiency.

(h) During the test, you must also monitor and record separately the amounts of production resin, tooling resin, pigmented gel coat, clear gel coat, and tooling gel coat applied inside the enclosure that is vented to the control device.

§§ 63.5855 What are my monitor installation and operation requirements?

You must monitor and operate all add-on control devices according to the procedures in 40 CFR part 63, subpart SS.

§§ 63.5860 How do I demonstrate initial compliance with the standards?

(a) You demonstrate initial compliance with each organic HAP emissions standard in paragraphs (a) through (h) of §§ 63.5805 that applies to you by using the procedures shown in Tables 8 and 9 to this subpart.

(b) If using an add-on control device to demonstrate compliance, you must also establish each control device operating limit in 40 CFR part 63, subpart SS, that applies to you.

Emission Factor, Percent Reduction, and Capture Efficiency Calculation Procedures for Continuous Lamination/Casting Operations

§§ 63.5865 What data must I generate to demonstrate compliance with the standards for continuous lamination/casting operations?

(a) For continuous lamination/casting affected sources complying with a percent reduction requirement, you must generate the data identified in Tables 10 and 11 to this subpart for each data requirement that applies to your facility.

(b) For continuous lamination/casting affected sources complying with a lbs/ton limit, you must generate the data identified in Tables 11 and 12 to this subpart for each data requirement that applies to your facility.

§§ 63.5870 How do I calculate annual uncontrolled and controlled organic HAP emissions from my wet-out area(s) and from my oven(s) for continuous lamination/casting operations?

To calculate your annual uncontrolled and controlled organic HAP emissions from your wet-out areas and from your ovens, you must develop uncontrolled and controlled wet-out area and uncontrolled and controlled oven organic HAP emissions estimation equations or factors to apply to each formula applied on each line, determine how much of each formula for each end product is applied each year on each line, and assign uncontrolled and controlled wet-out area and uncontrolled and controlled oven organic HAP emissions estimation equations or factors to each formula. You must determine the overall capture efficiency using the procedures in §§ 63.5850 to this subpart.

(a) To develop uncontrolled and controlled organic HAP emissions estimation equations and factors, you must, at a minimum, do the following, as specified in paragraphs (a)(1) through (6) of this section:

(1) Identify each end product and the thickness of each end product produced on the line. Separate end products into the following end product groupings, as applicable: corrosion-resistant gel coated end products, noncorrosion-resistant gel coated end products, corrosion-resistant nongel coated end products, and noncorrosion-resistant nongel coated end products. This step creates end product/thickness combinations.

(2) Identify each formula used on the line to produce each end product/thickness combination. Identify the amount of each such formula applied per year. Rank each formula used to produce each end product/thickness combination according to usage within each end product/thickness combination.

(3) For each end product/thickness combination being produced, select the formula with the highest usage rate for testing.

(4) If not already selected, also select the worst-case formula (likely to be associated with the formula with the

highest organic HAP content, type of HAP, application of gel coat, thin product, low line speed, higher resin table temperature) amongst all formulae. (You may use the results of the worst-case formula test for all formulae if desired to limit the amount of testing required.)

(5) For each formula selected for testing, conduct at least one test (consisting of three runs). During the test, track information on organic HAP content and type of HAP, end product thickness, line speed, and resin temperature on the wet-out area table.

(6) Using the test results, develop uncontrolled and controlled organic HAP emissions estimation equations (or factors) or series of equations (or factors) that best fit the results for estimating uncontrolled and controlled organic HAP emissions, taking into account the organic HAP content and type of HAP, end product thickness, line speed, and resin temperature on the wet-out area table.

(b) In lieu of using the method specified in paragraph (a) of this section for developing uncontrolled and controlled organic HAP emissions estimation equations and factors, you may either method specified in paragraphs (b)(1) and (2) of this section, as applicable.

(1) For either uncontrolled or controlled organic HAP emissions estimates, you may use previously established, facility-specific organic HAP emissions equations or factors, provided they allow estimation of both wet-out area and oven organic HAP emissions, where necessary, and have been approved by your permitting authority. If a previously established equation or factor is specific to the wet-out area only, or to the oven only, then you must develop the corresponding uncontrolled or controlled equation or factor for the other organic HAP emissions source.

(2) For uncontrolled (controlled) organic HAP emissions estimates, you may use controlled (uncontrolled) organic HAP emissions estimates and control device destruction efficiency to calculate your uncontrolled (controlled) organic HAP emissions provided the control device destruction efficiency was calculated at the same time you collected the data to develop your facility's controlled (uncontrolled) organic HAP emissions estimation equations and factors.

(c) Assign to each formula an uncontrolled organic HAP emissions estimation equation or factor based on the end product/thickness combination for which that formula is used.

(d)(1) To calculate your annual uncontrolled organic HAP emissions from wet-out areas that do not have any capture and control and from wet-out areas that are captured by an enclosure but are vented to the atmosphere and not to a control device, multiply each formula's annual usage by its appropriate organic HAP emissions estimation equation or factor and sum the individual results.

(2) To calculate your annual uncontrolled organic HAP emissions that escape from the enclosure on the wet-out area, multiply each formula's annual usage by its appropriate uncontrolled organic HAP emissions estimation equation or factor, sum the individual results, and multiply the summation by 1 minus the percent capture (expressed as a fraction).

(3) To calculate your annual uncontrolled oven organic HAP emissions, multiply each formula's annual usage by its appropriate uncontrolled organic HAP emissions estimation equation or factor and sum the individual results.

(4) To calculate your annual controlled organic HAP emissions, multiply each formula's annual usage by its appropriate organic HAP emissions estimation equation or factor and sum the individual results to obtain total annual controlled organic HAP emissions.

(e) Where a facility is calculating both uncontrolled and controlled organic HAP emissions estimation equations and factors, you must test the same formulae. In addition, you must develop both sets of equations and factors from the same tests.

§§ 63.5875 How do I determine the capture efficiency of the enclosure on my wet-out area and the capture efficiency of my oven(s) for continuous lamination/casting operations?

(a) The capture efficiency of a wet-out area enclosure is assumed to be 100 percent if it meets the design and operation requirements for a permanent total enclosure (PTE) specified in EPA Method 204 of appendix M to 40 CFR part 51. If a PTE does not exist, then a temporary total enclosure must be constructed and verified using EPA Method 204, and capture efficiency testing must be determined using EPA Methods 204B through E of appendix M to 40 CFR part 51.

(b) The capture efficiency of an oven is to be considered 100 percent, provided the oven is operated under negative pressure.

§§ 63.5880 How do I determine how much neat resin plus is applied to the line and how much neat gel coat plus is applied to the line for continuous lamination/casting operations?

Use the following procedures to determine how much neat resin plus and neat gel coat plus is applied to the line each year.

(a) Track formula usage by end product/thickness combinations.

(b) Use in-house records to show usage. This may be either from automated systems or manual records.

(c) Record daily the usage of each formula/end product combination on each line. This is to be recorded at the end of each run (*i.e.*, when a changeover in formula or product is made) and at the end of each shift.

(d) Sum the amounts from the daily records to calculate annual usage of each formula/end product combination by line.

§§ 63.5885 How do I calculate percent reduction to demonstrate compliance for Continuous Lamination/Casting Operations?

You may calculate percent reduction using any of the methods in paragraphs (a) through (d) of this section.

(a) *Compliant line option.* If all of your wet-out areas have PTE that meet the requirements of EPA Method 204 of appendix M of 40 CFR part 51, and all of your wet-out area organic HAP emissions and oven organic HAP emissions are vented to an add-on control device, use Equation 1 of this section to demonstrate compliance. In all other situations, use Equation 2 of this section to demonstrate compliance.

(Equation 1)

(Figure)

See Attachment A for Equation 1

Where:

PR=percent reduction

Inlet=HAP emissions entering the control device, lbs per year

Outlet=HAP emissions exiting the control device to the atmosphere, lbs per year

(Equation 2)

(Figure)

See Attachment A for Equation 2

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Where:

PR=percent reduction WAEu=uncontrolled wet-out area organic HAP emissions, lbs per year

Ou=uncontrolled oven organic HAP emissions, lbs per year

WAEc=controlled wet-out area organic HAP emissions, lbs per year

Oc=controlled oven organic HAP emissions, lbs per year

(b) *Averaging option*. Use Equation 3 of this section to calculate percent reduction.

(Equation 3)

(Figure)

See Attachment A for Equation 3

Where:

PR=percent reduction

WAEui=uncontrolled organic HAP emissions from wet-out area i, lbs per year

Ouj=uncontrolled organic HAP emissions from oven j, lbs per year

WAEci=controlled organic HAP emissions from wet-out area i, lbs per year

Ocj=controlled organic HAP emissions from oven j, lbs per year

i=number of wet-out areas

j=number of ovens

m=number of wet-out areas uncontrolled

n=number of ovens uncontrolled

o=number of wet-out areas controlled

p=number of ovens controlled

(c) *Add-on control device option*. Use Equation 1 of this section to calculate percent reduction.

(d) *Combination option*. Use Equations 1 through 3 of this section, as applicable, to calculate percent reduction.

§§ 63.5890 How do I calculate a organic HAP emissions factor to demonstrate compliance for continuous lamination/casting operations?

(a) *Compliant line option*. Use Equation 1 of this section to calculate a organic HAP emissions factor in lbs/ton.

(Equation 1)

(Figure)

See Attachment A for Equation 1

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Where:

E=HAP emissions factor in lbs/ton of resin and gel coat

WAEu=uncontrolled wet-out area organic HAP emissions, lbs per year

WAEc=controlled wet-out area organic HAP emissions, lbs per year

Ou=uncontrolled oven organic HAP emissions, lbs per year

Oc=controlled oven organic HAP emissions, lbs per year

R=total usage of neat resin plus, tpy

G=total usage of neat gel coat plus, tpy

(b) *Averaging option.* Use Equation 2 of this section to demonstrate compliance.

(Equation 2)

(Figure)

See Attachment A for Equation 2

Where:

E=HAP emissions factor in lbs/ton of resin and gel coat

WAE_{ui}=uncontrolled organic HAP emissions from wet-out area i, lbs per year

WAE_{ci}=controlled organic HAP emissions from wet-out area i, lbs per year

O_{uj}=uncontrolled organic HAP emissions from oven j, lbs per year

O_{cj}=controlled organic HAP emissions from oven j, lbs per year

i=number of wet-out areas

j=number of ovens

m=number of wet-out areas uncontrolled

n=number of ovens uncontrolled

o=number of wet-out areas controlled

p=number of ovens controlled

R=total usage of neat resin plus, tpy

G=total usage of neat gel coat plus, tpy

(c) *Combination option.* Use Equations 1 and 2 of this section, as applicable, to demonstrate compliance.

§§ 63.5895 How do I monitor and collect data to demonstrate continuous compliance?

(a) During production, you must collect and keep a record of data as indicated in 40 CFR part 63, subpart SS, if you are using an add-on control device.

(b) You must monitor and collect data as specified in paragraphs (b)(1) through (4) of this section.

(1) Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), you must conduct all monitoring in continuous operation (or collect data at all required intervals) at all times that the affected source is operating.

(2) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes to this subpart, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. You must use all the data collected during all other periods in assessing the operation of the control device and associated control system.

(3) At all times, you must maintain necessary parts for routine repairs of the monitoring equipment.

(4) A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring equipment to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

(c) You must collect and keep records of resin and gel coat use, organic HAP content, and operation where the

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resin is used if you are meeting any organic HAP emissions limits based on an organic HAP emissions limit in Tables 3 or 5 to this subpart. You must collect and keep records of resin and gel coat use, organic HAP content, and operation where the resin is used if you are meeting any organic HAP content limits in Table 7 to this subpart if you are averaging organic HAP contents. Resin use records may be based on purchase records if you can reasonably estimate how the resin is applied. The organic HAP content records may be based on MSDS or on resin specifications supplied by the resin supplier.

(d) If you initially demonstrate that all resins and gel coats individually meet the applicable organic HAP emissions limits, or organic HAP content limits, then resin and gel coat use records are not required. However, you must include a statement in each compliance report that all resins and gel coats still meet the organic HAP limits for compliant resins and gel coats shown in Tables 3 or 7 to this subpart. If after this initial demonstration, you change to a higher organic HAP resin or gel coat, or increase the resin or gel coat organic HAP content, or change to a higher-emitting resin or gel coat application method, then you must either again demonstrate that all resins and gel coats still meet the applicable organic HAP emissions limits, or begin collecting resin and gel coat use records and calculate compliance on a 12-month rolling average.

(e) For each of your pultrusion machines, you must record all times that wet area enclosures doors or covers are open and there is resin present in the resin bath.

§§ 63.5900 How do I demonstrate continuous compliance with the standards?

(a) You must demonstrate continuous compliance with each standard in §§ 63.5805 that applies to you according to the methods specified in paragraphs (a)(1) through (3) of this section.

(1) Compliance with organic HAP emissions limits for sources using add-on control devices is demonstrated following the procedures in 40 CFR part 63, subpart SS. Sources using add-on controls may also use continuous emissions monitors to demonstrate continuous compliance as an alternative to control parameter monitoring.

(2) Compliance with organic HAP emissions limits is demonstrated by maintaining a organic HAP emissions factor value less than or equal to the appropriate organic HAP emissions limit listed in Tables 3, or 5 to this subpart, on a 12-month rolling average, or by including in each compliance report a statement that all resins and gel coats meet the appropriate organic HAP emissions limits, as discussed in §§ 63.5895(d).

(3) Compliance with organic HAP content limits in Table 7 to this subpart is demonstrated by maintaining an average organic HAP content value less than or equal to the appropriate organic HAP contents listed in Table 7 to this subpart, on a 12-month rolling average, or by including in each compliance report a statement that all resins and gel coats individually meet the appropriate organic HAP content limits, as discussed in §§ 63.5895(d).

(4) Compliance with the work practice standards in Table 4 to this subpart is demonstrated by performing the work practice required for your operation.

(b) You must report each deviation from each standard in §§ 63.5805 that applies to you. The deviations must be reported according to the requirements in §§ 63.5910.

(c) Except as provided in paragraph (d) of this section, during periods of startup, shutdown or malfunction, you must meet the organic HAP emissions limits and work practice standards that apply to you.

(d) When you use an add-on control device to meet standards in §§ 63.5805, you are not required to meet those standards during periods of startup, shutdown, or malfunction, but you must operate your affected source in accordance with the startup, shutdown, and malfunction plan.

(e) Consistent with §§§§ 63.6(e) and 63.7(e)(1), deviations that occur during a period of malfunction for those affected sources and standards specified in paragraph (d) of this section are not violations if you demonstrate to the Administrator's satisfaction that you were operating in accordance with the startup, shutdown, and malfunction plan. The Administrator will determine whether deviations that occur during a period of startup, shutdown, and malfunction are violations, according to the provisions in §§ 63.6(e).

§§ 63.5905 What notifications must I submit and when?

(a) You must submit all of the notifications in Table 13 to this subpart that apply to you by the dates specified in Table 13 to this subpart. The notifications are described more fully in 40 CFR part 63, subpart A, referenced in Table 13 to this subpart.

(b) If you change any information submitted in any notification, you must submit the changes in writing to the Administrator within 15 calendar days after the change.

§§ 63.5910 What reports must I submit and when?

(a) You must submit each report in Table 14 to this subpart that applies to you.

(b) Unless the Administrator has approved a different schedule for submission of reports under § 63.10(a), you must submit each report by the date specified in Table 14 to this subpart and according to paragraphs (b)(1) through (5) of this section.

(1) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in § 63.5800 and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in § 63.5800.

(2) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date that is specified for your affected source in § 63.5800.

(3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(5) For each affected source that is subject to permitting requirements pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to § 70.6 (a)(3)(iii)(A) or § 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(1) through (4) of this section.

(c) The compliance report must contain the information in paragraphs (c)(1) through (6) of this section:

(1) Company name and address.

(2) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(3) Date of the report and beginning and ending dates of the reporting period.

(4) If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in § 63.10(d)(5)(i).

(5) If there are no deviations from any organic HAP emissions limitations (emissions limit and operating limit) that apply to you, and there are no deviations from the requirements for work practice standards in Table 4 to this subpart, a statement that there were no deviations from the organic HAP emissions limitations or work practice standards during the reporting period.

(6) If there were no periods during which the continuous monitoring system (CMS), including a continuous emissions monitoring system (CEMS) and an operating parameter monitoring system were out of control, as specified in § 63.8(c)(7), a statement that there were no periods during which the CMS was out of control during the reporting period.

(d) For each deviation from a organic HAP emissions limitation (i.e., emissions limit and operating limit) and for each deviation from the requirements for work practice standards that occurs at an affected source where you are not using a CMS to comply with the organic HAP emissions limitations or work practice standards in this subpart, the compliance report must contain the information in paragraphs (c)(1) through (4) of this section and in paragraphs (d)(1) and (2) of this section. This includes periods of startup, shutdown, and malfunction.

(1) The total operating time of each affected source during the reporting period.

(2) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.

(e) For each deviation from a organic HAP emissions limitation (i.e., emissions limit and operating limit) occurring at an affected source where you are using a CMS to comply with the organic HAP emissions limitation in this subpart, you must include the information in paragraphs (c)(1) through (4) of this section and in paragraphs (e)(1) through (12) of this section. This includes periods of startup, shutdown, and malfunction.

(1) The date and time that each malfunction started and stopped.

(2) The date and time that each CMS was inoperative, except for zero (low-level) and high-level checks.

(3) The date, time, and duration that each CMS was out of control, including the information in § 63.8(c)(8).

(4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction, or during another period.

(5) A summary of the total duration of the deviation during the reporting period and the total duration as a

percent of the total source operating time during that reporting period.

(6) A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(7) A summary of the total duration of CMS downtime during the reporting period and the total duration of CMS downtime as a percent of the total source operating time during that reporting period.

(8) An identification of each organic HAP that was monitored at the affected source.

(9) A brief description of the process units.

(10) A brief description of the CMS.

(11) The date of the latest CMS certification or audit.

(12) A description of any changes in CMS, processes, or controls since the last reporting period.

(f) You must report if you have exceeded the 100 tpy organic HAP emissions threshold if that exceedance would make your facility subject to § 63.5805(b) or (d). Include with this report any request for an exemption under § 63.5805(e). If you receive an exemption under § 63.5805(e) and subsequently exceed the 100 tpy organic HAP emissions threshold, you must report this exceedance as required in § 63.5805(f).

(g) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by § 70.6(a)(3)(iii)(A) or § 71.6(a)(3)(iii)(A). If an affected source submits a compliance report pursuant to Table 14 to this subpart along with, or as part of, the semiannual monitoring report required by § 70.6(a)(3)(iii)(A) or § 71.6(a)(3)(iii)(A), and the compliance report includes all required information concerning deviations from any organic HAP emissions limitation (including any operating limit) or work practice requirement in this subpart, submission of the compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permitting authority.

(h) Submit compliance reports and startup, shutdown, and malfunction reports based on the requirements in Table 14 to this subpart, and not based on the requirements in § 63.999.

§§ 63.5915 What records must I keep?

(a) You must keep the records listed in paragraphs (a)(1) through (3) of this section.

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirements in §§ 63.10(b)(2)(xiv).

(2) The records in §§ 63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.

(3) Records of performance tests, design, and performance evaluations as required in §§ 63.10(b)(2).

- (b) If you use an add-on control device, you must keep all records required in 40 CFR part 63, subpart SS, to show continuous compliance with this subpart.
- (c) You must keep all data, assumptions, and calculations used to determine organic HAP emissions factors or average organic HAP contents for operations listed in Tables 3, 5, and 7 to this subpart.
- (d) You must keep a certified statement that you are in compliance with the work practice requirements in Table 4 to this subpart, as applicable.
- (e) For a new or existing continuous lamination/casting operation, you must keep the records listed in paragraphs (e)(1) through (4) of this section, when complying with the percent reduction and/or lbs/ton requirements specified in paragraphs (a) through (d) of §§ 63.5805.
- (1) You must keep all data, assumptions, and calculations used to determine percent reduction and/or lbs/ton as applicable;
- (2) You must keep a brief description of the rationale for the assignment of an equation or factor to each formula;
- (3) When using facility-specific organic HAP emissions estimation equations or factors, you must keep all data, assumptions, and calculations used to derive the organic HAP emissions estimation equations and factors and identification and rationale for the worst-case formula; and
- (4) For all organic HAP emissions estimation equations and organic HAP emissions factors, you must keep documentation that the appropriate permitting authority has approved them.

§§ 63.5920 In what form and how long must I keep my records?

- (a) You must maintain all applicable records in such a manner that they can be readily accessed and are suitable for inspection according to § 63.10(b)(1).
- (b) As specified in § 63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
- (c) You must keep each record onsite for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to § 63.10(b)(1). You can keep the records offsite for the remaining 3 years.
- (d) You may keep records in hard copy or computer readable form including, but not limited to, paper, microfilm, computer floppy disk, magnetic tape, or microfiche.

§§ 63.5925 What parts of the General Provisions apply to me?

Table 15 to this subpart shows which parts of the General Provisions in §§§§ 63.1 through 63.15 apply to you.

§§ 63.5930 Who implements and enforces this subpart?

- (a) This subpart can be administered by us, the EPA, or a delegated authority such as your State, local, or tribal agency. If the EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency has the authority to administer and enforce this subpart. You should contact your EPA Regional Office to find out if this subpart is delegated to your State, local, or tribal agency.
- (b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under 40 CFR part 63, subpart E, the authorities contained in paragraph (c) of this section are not delegated.

(c) The authorities that will not be delegated to State, local, or tribal agencies are listed in paragraphs (c)(1) through (4) of this section:

- (1) Approval of alternatives to the organic HAP emissions standards in §§ 63.5805 under §§ 63.6(g).
- (2) Approval of major changes to test methods under §§ 63.7(e)(2)(ii) and (f) and as defined in §§ 63.90.
- (3) Approval of major changes to monitoring under §§ 63.8(f) and as defined in §§ 63.90.
- (4) Approval of major changes to record keeping and reporting under §§ 63.10(f) and as defined in §§ 63.90.

§§ 63.5935 What definitions apply to this subpart?

Terms used in this subpart are defined in the CAA, in 40 CFR 63.2, and in this section as follows:

Atomized mechanical application means application of resin or gel coat with spray equipment that separates the liquid into a fine mist. This fine mist may be created by forcing the liquid under high pressure through an elliptical orifice, bombarding a liquid stream with directed air jets, or a combination of these techniques.

Bulk molding compound (BMC) means a putty-like molding compound containing resin(s) in a form that is ready to mold. In addition to resins, BMC may contain catalysts, fillers, and reinforcements. Bulk molding compound can be used in compression molding and injection molding operations to manufacture reinforced plastic composites products.

BMC manufacturing means a process that involves the preparation of BMC.

Centrifugal casting means a process for fabricating cylindrical composites, such as pipes, in which composite materials are positioned inside a rotating hollow mandrel and held in place by centrifugal forces until the part is sufficiently cured to maintain its physical shape.

Charge means the amount of SMC or BMC that is placed into a compression or injection mold necessary to complete one mold cycle.

Cleaning means removal of composite materials, such as cured and uncured resin from equipment, finished surfaces, floors, hands of employees, or any other surfaces.

Clear production gel coat means an unpigmented, quick-setting resin used to improve the surface appearance and/or performance of composites. It can be used to form the surface layer of any composites other than those used for molds in tooling operations.

Closed molding means a grouping of processes for fabricating composites in a way that HAP-containing materials are not exposed to the atmosphere except during the material loading stage (*e.g.*, compression molding, injection molding, and resin transfer molding). Processes where the mold is covered with plastic (or equivalent material) prior to resin application, and the resin is injected into the covered mold are also considered closed molding.

Composite means a shaped and cured part produced by using composite materials.

Composite materials means the raw materials used to make composites. The raw materials include styrene containing resins. They may also include gel coat, monomer, catalyst, pigment, filler, and reinforcement.

Compression molding means a closed molding process for fabricating composites in which composite materials are placed inside matched dies that are used to cure the materials under heat and pressure without exposure to the atmosphere. The addition of mold paste or in-mold coating is considered part of the closed molding process. The composite materials used in this process are generally SMC or BMC.

Compression/injection molding means a grouping of processes that involves the use of compression molding and/or injection molding.

Continuous casting means a continuous process for fabricating composites in which composite materials are placed on an in-line conveyor belt to produce cast sheets that are cured in an oven.

Continuous lamination means a continuous process for fabricating composites in which composite materials are typically sandwiched between plastic films, pulled through compaction rollers, and cured in an oven. This process

is generally used to produce flat or corrugated products on an in-line conveyor.

Continuous lamination/casting means a grouping of processes that involves the use of continuous lamination and/or continuous casting.

Controlled emissions means those organic HAP emissions that are vented from a control device to the atmosphere.

Corrosion-resistant gel coat means a gel coat used on a product made with a corrosion-resistant resin that has a corrosion-resistant end-use application.

Corrosion-resistant end-use applications means applications where the product is manufactured specifically for an application that requires a level of chemical inertness or resistance to chemical attack above that required for typical reinforced plastic composites products. These applications include, but are not limited to, chemical processing and storage; pulp and paper production; sewer and wastewater treatment; power generation; potable water transfer and storage; food and drug processing; pollution or odor control; metals production and plating; semiconductor manufacturing; petroleum production, refining, and storage; mining; textile production; nuclear materials storage; swimming pools; and cosmetic production, as well as end-use applications that require high strength resins.

Corrosion-resistant industry standard includes the following standards: ASME RTP-1 or Sect. X; ASTM D5364, D3299, D4097, D2996, D2997, D3262, D3517, D3754, D3840, D4024, D4160, D4161, D4162, D4184, D3982, or D3839; ANSI/AWWA C950; UL 215, 1316 or 1746, IAPMO PS-199, or written customer requirements for resistance to specified chemical environments.

Corrosion-resistant product means a product made with a corrosion-resistant resin and is manufactured to a corrosion-resistant industry standard, or a food contact industry standard, or is manufactured for corrosion-resistant end-use applications involving continuous or temporary chemical exposures.

Corrosion-resistant resin means a resin that either:

- (1) Displays substantial retention of mechanical properties when undergoing ASTM C-581 coupon testing, where the resin is exposed for 6 months or more to one of the following materials: Material with a pH \geq 12.0 or \leq 3.0, oxidizing or reducing agents, organic solvents, or fuels or additives as defined in 40 CFR 79.2. In the coupon testing, the exposed resin needs to demonstrate a minimum of 50 percent retention of the relevant mechanical property compared to the same resin in unexposed condition. In addition, the exposed resin needs to demonstrate an increased retention of the relevant mechanical property of at least 20 percentage points when compared to a similarly exposed general-purpose resin. For example, if the general-purpose resin retains 45 percent of the relevant property when tested as specified above, then a corrosion-resistant resin needs to retain at least 65 percent (45 percent plus 20 percent) of its property. The general-purpose resin used in the test needs to have an average molecular weight of greater than 1,000, be formulated with a 1:2 ratio of maleic anhydride to phthalic anhydride and 100 percent diethylene glycol, and a styrene content between 43 to 48 percent; or
- (2) Complies with industry standards that require specific exposure testing to corrosive media, such as UL 1316, UL 1746, or ASTM F-1216.

Doctor box means the box or trough on an SMC machine into which the liquid resin paste is delivered before it is metered onto the carrier film.

Filament application means an open molding process for fabricating composites in which reinforcements are fed through a resin bath and wound onto a rotating mandrel. The materials on the mandrel may be rolled out or worked by using nonmechanical tools prior to curing. Resin application to the reinforcement on the mandrel by means other than the resin bath, such as spray guns, pressure-fed rollers, flow coaters, or brushes is not considered filament application.

Filled Resin means that fillers have been added to a resin such that the amount of inert substances is at least 10 percent by weight of the total resin plus filler mixture. Filler putty made from a resin is considered a filled resin.

Fillers means inert substances dispersed throughout a resin, such as calcium carbonate, alumina trihydrate, hydrous aluminum silicate, mica, feldspar, wollastonite, silica, and talc. Materials that are not considered to be fillers are glass fibers or any type of reinforcement and microspheres.

Fire retardant gel coat means a gel coat used for products for which low-flame spread/low-smoke resin is used.

Fluid impingement technology means a spray gun that produces an expanding non-misting curtain of liquid by the impingement of low-pressure uninterrupted liquid streams.

Food contact industry standard means a standard related to food contact application contained in Food and Drug Administration's regulations at 21 CFR 177.2420.

Gel Coat means a quick-setting resin used to improve surface appearance and/or performance of composites. It can be used to form the surface layer of any composites other than those used for molds in tooling operations.

Gel coat application means a process where either clear production, pigmented production, white/off-white or tooling gel coat is applied.

HAP-containing materials storage means an ancillary process which involves keeping HAP-containing materials, such as resins, gel coats, catalysts, monomers, and cleaners, in containers or bulk storage tanks for any length of time. Containers may include small tanks, totes, vessels, and buckets.

High Performance gel coat means a gel coat used on products for which National Science Foundation, United States Department of Agriculture, ASTM, durability, or other property testing is required.

High strength gel coat means a gel coat applied to a product that requires high strength resin.

High strength resins means polyester resins which have a casting tensile strength of 10,000 pounds per square inch or more and which are used for manufacturing products that have high strength requirements such as structural members and utility poles.

Injection molding means a closed molding process for fabricating composites in which composite materials are injected under pressure into a heated mold cavity that represents the exact shape of the product. The composite materials are cured in the heated mold cavity.

Low Flame Spread/Low Smoke Products means products that meet the following requirements. The products must meet both the applicable flame spread requirements and the applicable smoke requirements. Interior or exterior building application products must meet an ASTM E-84 Flame Spread Index of less than or equal to 25, and Smoke Developed Index of less than or equal to 450, or pass National Fire Protection Association 286 Room Corner Burn Test with no flash over and total smoke released not exceeding 1000 meters square. Mass transit application products must meet an ASTM E-162 Flame Spread Index of less than or equal to 35 and ASTM E662 Smoke Density $D_s @ 1.5$ minutes less than or equal to 100 and $D_s @ 4$ minutes less than or equal to 200. Duct application products must meet ASTM E084 Flame Spread Index less than or equal to 25 and Smoke Developed Index less than or equal to 50 on the interior and/or exterior of the duct.

Manual resin application means an open molding process for fabricating composites in which composite materials are applied to the mold by pouring or by using hands and nonmechanical tools, such as brushes and rollers. Materials are rolled out or worked by using nonmechanical tools prior to curing. The use of pressure-fed rollers and flow coaters to apply resin is not considered manual resin application.

Mechanical resin application means an open molding process for fabricating composites in which composite materials (except gel coat) are applied to the mold by using mechanical tools such as spray guns, pressure-fed rollers, and flow coaters. Materials are rolled out or worked by using nonmechanical tools prior to curing.

Mixing means the blending or agitation of any HAP-containing materials in vessels that are 5.00 gallons (18.9 liters) or larger. Mixing may involve the blending of resin, gel coat, filler, reinforcement, pigments, catalysts, monomers, and any other additives.

Mold means a cavity or matrix into or onto which the composite materials are placed and from which the product takes its form.

Neat gel coat means the resin as purchased for the supplier, but not including any inert fillers.

Neat gel coat plus means neat gel coat plus any organic HAP-containing materials that are added to the gel coat by the supplier or the facility, excluding catalysts and promoters. Neat gel coat plus does include any additions of styrene or methyl methacrylate monomer in any form, including in catalysts and promoters.

Neat resin means the resin as purchased from the supplier, but not including any inert fillers.

Neat resin plus means neat resin plus any organic HAP-containing materials that are added to the resin by the supplier or the facility. Neat resin plus does not include any added filler, reinforcements, catalysts, or promoters. Neat resin does include any additions of styrene or methyl methacrylate monomer in any form, including in catalysts and promoters.

Nonatomized mechanical application means the use of application tools other than brushes to apply resin and gel coat where the application tool has documentation provided by its manufacturer or user that this design of the application tool has been organic HAP emissions tested, and the test results showed that use of this application tool results in organic HAP emissions that are no greater than the organic HAP emissions predicted by the applicable nonatomized application equation(s) in Table 1 to this subpart. In addition, the device must be operated according to the manufacturer's directions, including instructions to prevent the operation of the device at excessive spray pressures. Examples of nonatomized application include flow coaters, pressure fed rollers, and fluid impingement spray guns.

Noncorrosion-resistant resin means any resin other than a corrosion-resistant resin or a tooling resin.

Noncorrosion-resistant product means any product other than a corrosion-resistant product or a mold.

Non-routine manufacture means that you manufacture parts to replace worn or damaged parts of a reinforced plastic composites product, or a product containing reinforced plastic composite parts, that was originally manufactured in another facility. For a part to qualify as non-routine manufacture, it must be used for repair or replacement, and the manufacturing schedule must be based on the current or anticipated repair needs of the reinforced plastic composites product, or a product containing reinforced plastic composite parts.

Operation means a specific process typically found at a reinforced plastic composites facility. Examples of operations are noncorrosion-resistant manual resin application, corrosion-resistant mechanical resin application, pigmented gel coat application, mixing and HAP-containing materials storage.

Operation group means a grouping of individual operations based primarily on mold type. Examples are open molding, closed molding, and centrifugal casting.

Open molding means a process for fabricating composites in a way that HAP-containing materials are exposed to the atmosphere. Open molding includes processes such as manual resin application, mechanical resin application, filament application, and gel coat application. Open molding also includes application of resins and gel coats to parts that have been removed from the open mold.

Pigmented gel coat means a gel coat that has a color, but does not contain 10 percent or more titanium dioxide by weight. It can be used to form the surface layer of any composites other than those used for molds in tooling operations.

Polymer casting means a process for fabricating composites in which composite materials are ejected from a casting machine or poured into an open, partially open, or closed mold and cured. After the composite materials are poured into the mold, they are not rolled out or worked while the mold is open. The composite materials may or may not include reinforcements. Products produced by the polymer casting process include cultured marble products and polymer concrete.

Preform Injection means a form of pultrusion where liquid resin is injected to saturate reinforcements in an enclosed system containing one or more chambers with openings only large enough to admit reinforcements. Resin, which drips out of the chamber(s) during the process, is collected in closed piping or covered troughs and then into a covered reservoir for recycle. Resin storage vessels, reservoirs, transfer systems, and collection

systems are covered or shielded from the ambient air. Preform injection differs from direct die injection in that the injection chambers are not directly attached to the die.

Prepreg materials means reinforcing fabric received precoated with resin which is usually cured through the addition of heat.

Pultrusion means a continuous process for manufacturing composites that have a uniform cross-sectional shape. The process consists of pulling a fiber-reinforcing material through a resin impregnation chamber or bath and through a shaping die, where the resin is subsequently cured. There are several types of pultrusion equipment, such as open bath, resin injection, and direct die injection equipment.

Repair means application of resin or gel coat to a part to correct a defect, where the resin or gel coat application occurs after the part has gone through all the steps of its typical production process, or the application occurs outside the normal production area. For purposes of this subpart, rerouting a part back through the normal production line, or part of the normal production line, is not considered repair.

Resin transfer molding means a process for manufacturing composites whereby catalyzed resin is transferred or injected into a closed mold in which fiberglass reinforcement has been placed.

Sheet molding compound (SMC) means a ready-to-mold putty-like molding compound that contains resin(s) processed into sheet form. The molding compound is sandwiched between a top and a bottom film. In addition to resin(s), it may also contain catalysts, fillers, chemical thickeners, mold release agents, reinforcements, and other ingredients. Sheet molding compound can be used in compression molding to manufacture reinforced plastic composites products.

Shrinkage controlled resin means a resin that when promoted, catalyzed, and filled according to the resin manufacturer's recommendations demonstrates less than 0.3 percent linear shrinkage when tested according to ASTM D2566.

SMC manufacturing means a process which involves the preparation of SMC.

Tooling gel coat means a gel coat that is used to form the surface layer of molds. Tooling gel coats generally have high heat distortion temperatures, low shrinkage, high barcol hardness, and high dimensional stability.

Tooling resin means a resin that is used to produce molds. Tooling resins generally have high heat distortion temperatures, low shrinkage, high barcol hardness, and high dimensional stability.

Uncontrolled oven organic HAP emissions means those organic HAP emissions emitted from the oven through closed vent systems to the atmosphere and not to a control device. These organic HAP emissions do not include organic HAP emissions that may escape into the workplace through the opening of panels or doors on the ovens or other similar fugitive organic HAP emissions in the workplace.

Uncontrolled wet-out area organic HAP emissions means any or all of the following: Organic HAP emissions from wet-out areas that do not have any capture and control, organic HAP emissions that escape from wet-out area enclosures, and organic HAP emissions from wet-out areas that are captured by an enclosure but are vented to the atmosphere and not to an add-on control device.

Unfilled means that there has been no addition of fillers to a resin or that less than 10 percent of fillers by weight of the total resin plus filler mixture has been added.

Vapor suppressant means an additive, typically a wax, that migrates to the surface of the resin during curing and forms a barrier to seal in the styrene and reduce styrene emissions.

Vapor-suppressed resin means a resin containing a vapor suppressant added for the purpose of reducing styrene emissions during curing.

White and off-white gel coat means a gel coat that contains 10 percent of more titanium dioxide by weight.

EMISSIONS FACTORS FOR SPECIFIC OPEN MOLDING AND CENTRIFUGAL CASTING PROCESS STREAMS

TABLE 2 TO SUBPART WWW OF PART 63.—COMPLIANCE DATES FOR NEW AND EXISTING REINFORCED PLASTIC COMPOSITES FACILITIES

TABLE 3 TO SUBPART WWW OF 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

TABLE 4 TO SUBPART WWW OF PART 63.—WORK PRACTICE STANDARDS

TABLE 5 TO SUBPART WWW OF PART 63.—ALTERNATIVE ORGANIC HAP EMISSIONS LIMITS FOR OPEN MOLDING, CENTRIFUGAL CASTING, AND SMC MANUFACTURING OPERATIONS WHERE THE STANDARD IS BASED ON A 95 PERCENT REDUCTION REQUIREMENT

TABLE 6 TO SUBPART WWW OF PART 63.—BASIC REQUIREMENTS FOR PERFORMANCE TESTS, PERFORMANCE EVALUATIONS, AND DESIGN EVALUATIONS FOR NEW AND EXISTING SOURCES USING ADD-ON CONTROL DEVICES

TABLE 7 TO SUBPART WWW OF PART 63.—OPTIONS ALLOWING USE OF THE SAME RESIN ACROSS DIFFERENT OPERATIONS THAT USE THE SAME RESIN TYPE

TABLE 8 TO SUBPART WWW OF PART 63.—INITIAL COMPLIANCE WITH ORGANIC HAP EMISSIONS LIMITS

TABLE 9 TO SUBPART WWW OF PART 63.—INITIAL COMPLIANCE WITH WORK PRACTICE STANDARDS

TABLE 10 TO SUBPART WWW OF PART 63.—DATA REQUIREMENTS FOR NEW AND EXISTING CONTINUOUS LAMINATION LINES AND CONTINUOUS CASTING LINES COMPLYING WITH A PERCENT REDUCTION LIMIT ON A PER LINE BASIS

TABLE 11 TO SUBPART WWW OF PART 63.—DATA REQUIREMENTS FOR NEW AND EXISTING CONTINUOUS LAMINATION AND CONTINUOUS CASTING LINES COMPLYING WITH A PERCENT REDUCTION LIMIT OR A LBS/TON LIMIT ON AN AVERAGING BASIS

TABLE 12 TO SUBPART WWW OF PART 63.—DATA REQUIREMENTS FOR NEW AND EXISTING CONTINUOUS LAMINATION LINES AND CONTINUOUS CASTING LINES COMPLYING WITH A LBS/TON ORGANIC HAP EMISSIONS LIMIT ON A PER LINE BASIS

TABLE 13 TO SUBPART WWW OF PART 63.—APPLICABILITY AND TIMING OF NOTIFICATIONS

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TABLE 14 TO SUBPART WWW OF PART 63.—REQUIREMENTS FOR REPORTS

TABLE 15 TO SUBPART WWW OF PART 63.—APPLICABILITY OF GENERAL PROVISIONS
(SUBPART A) TO SUBPART WWW OF PART 63

Appendix A to Subpart WWW—Test Method for Determining Vapor Suppressant Effectiveness

See Attachment A for the fifteen tables and Appendix A.

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B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions

I. Monitoring and/or Record keeping Requirements

- The permit to install for these emissions units were evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant:

Item	EU#	Company ID	Previous EU#	Stack ID	Fan ID	Fence line, ft	Toxic Air Pollutants*
1	L001	Tote Wash	P017	Stack 4	Fan 80	175	MMA
2	L002	Part Wash	Z001	Stack 4	Fan 20	200	MMA
3	P014	Morehouse Mixer	P014	Stack 5	Fans 78 & 79	225	Styrene, MMA, and VT
4	P023	Pultrusion 44	P023	Stack 3	Fans 30 & 53	338	Styrene, MMA, and VT
5	P026	Pultrusion 1	P026	Stack 2	Fans 29 & 46	288	Styrene, MMA, and VT
6	P027	Pultrusion 3	P027	Stack 2	Fans 29 & 46	288	VT
7	P028	Pultrusion 28	P028	Stack 1	Fans 63 & 45	363	Styrene, MMA, and VT
8	P029	Pultrusion 7	P029	Stack 2	Fans 29 & 46	288	VT
9	P030	Pultrusion 8	P030	Stack 2	Fans 29 & 46	288	Styrene, MMA, and VT
10	P032	Pultrusion 12	P032	Stack 2	Fans 29 & 46	288	VT
11	P033	Pultrusion 29	P033	Stack 1	Fans 63 & 45	363	Styrene, MMA, and VT
12	P034	Pultrusion 30	P034	Stack 1	Fans 63 & 45	363	Styrene, MMA, and VT

13	P035	Pultrusion 31	P035	Stack 1	Fans 63 & 45	363	Styrene, MMA, and VT
14	P036	Pultrusion 32	P036	Stack 1	Fans 63 & 45	363	Styrene, MMA, and VT
15	P037	Pultrusion 40	P037	Stack 3	Fans 30 & 53	338	Styrene, MMA, and VT
16	P038	Pultrusion 41	P038	Stack 3	Fans 30 & 53	338	Styrene, MMA, and VT
17	P039	Pultrusion 42	P039	Stack 3	Fans 30 & 53	338	Styrene, MMA, and VT
18	P040	Pultrusion 43	P040	Stack 3	Fans 30 & 53	338	Styrene, MMA, and VT
19	P042	Laminate Press 4	P042	Stack 7	Fan 10	213	Styrene, MMA, and VT
20	P047	Laminate Press 10	P047	Stack 6	Fan 12	250	Styrene, MMA, and VT
21	P049	Laminate Press 12	P049	Stack 6	Fan 12	250	Styrene, MMA, and VT
22	P050	Laminate press 15	P050	Stack 7	Fan 10	213	Styrene, MMA, and VT
23	P051	Laminate Press 16	P051	Stack 88	Fan 88	250	Styrene, MMA, and VT
24	P052	Laminate Press 17	P052	Stack 9	Fan 11	225	Styrene, MMA, and VT
25	P053	Laminate press 18	P053	Stack 7	Fan 10	213	Styrene and VT
26	P059	Laminate Press 48	P059	Stack 11	Fan 51	113	Styrene, MMA, and VT
27	P060	Laminate Press 49	P060	Stacks 64 & 68	Fan 64	350	Styrene, MMA, and VT
28	P063	Tote Fill Station	Z002	Stack 4	Fan 61	215	Styrene and MMA

*Toxic Air Pollutants, MMA is methyl methacrylate and VT is vinyl toluene.

A	B	C	D	E	F	G	H	I
3	EU	Co. ID	Stack	gm/sec	lbs/hr	Ground level conc ug/m ³	MAGLC *, ug/m ³	
4				Styrene	Styrene	Styrene	Styrene	
5	P028	28	1		2.336			
6	P033	29	1		2.336			

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7	P034	30	1		2.338			
8	P035	31	1		1.011			
9	P036	32	1		1.011			
10	Subtotal				9.032			
11	Check		Styrene	1.1366	9.02078	766.1	2029	
12								
13	P026	1	2		2.07853			
14	P027	3	2		0			
15	P029	7	2		0			
16	P030	8	2		2.07853			
17	P032	12	2		0			
18	Subtotal				4.15706			
19	Check		Styrene	0.523781	4.15706	368.6	2029	
20								
21	P037	40	3		1.011			
22	P038	41	3		3.492			
23	P039	42	3		0.674			
24	P040	43	3		0.674			
25	P023	44	3		0.626			
26	Subtotal				6.477			
27	Check		Styrene	0.816055	6.47673	204.6	2029	
28								
29	L001	Tote Wash	4		0			
30	L002	Part Wash	4		0			
31	P063	Tote Fill	4		0.23			
32	Subtotal				0.23			
33	Check		Styrene	0.02898	0.23	92.14	2029	
34								
35	P014	Mixer	5		0.6			
36	Subtotal		Styrene	0.07547	0.59898	155.3	2029	
37								
38	P047	10	6		0.34			
39	P049	12	6		0.48			
40	Subtotal				0.82			
41	Check		Styrene	0.103725	0.82323	39.22	2029	
42								
43	P042	4	7		0.4			

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84	P037	40	3		1.21			
85	P038	41	3		1.50			
86	P039	42	3		1.21			
87	P040	43	3		1.21			
88	P023	44	3		0.72			
89	Subtotal				5.85			
90	Check		MMA	0.737088	5.85	184.8015	4875	
91								
92	L001	Tote Wash	4		0.85			
93	L002	Part Wash	4		1.10			
94	P063	Tote Fill	4		0.19			
95	Subtotal				2.14			
96	Check		MMA	0.269636	2.14	857.2884	4875	
97								
98	P014	Mixer	5		0.47			
99	Subtotal		MMA	0.05922	0.47	121.8592	4875	
100								
101	P047	10	6		0.17			
102	P049	12	6		0.24			
103	Subtotal				0.41			
104	Check		MMA	0.05166	0.41	19.53311	4875	
105								
106	P042	4	7		0.19			
107	P050	15	7		0.35			
108	P053	18	7		0.63			
109	Subtotal				1.18			
110	Check		MMA	0.14855	1.178985	67.0118	4875	
111								
112	P052	17	9		0.23			
113	Subtotal		MMA	0.02898	0.23	12.55635	4875	
114								
115	P059	48	11		0.58			
116	Subtotal		MMA	0.07308	0.58	63.40614	4875	
117								
118	P060	49	64&68		0.88			
119	Subtotal		MMA	0.110878	0.88	50.89621	4875	
120								
121	P051	16	88		0.29			
122	Subtotal		MMA	0.03654	0.29	13.09661	4875	
123	Total			2.66725	21.16899	2176.03	4875	
124								
125	Total 1-hour ground level concentrations of MMA compared to MAGLC							

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126	2176.03	1-hour ground level conc., ug/m ³			=	0.44637	Dimens
127	4875	MAGLC, ug/m ³					ionless
128							
129				VT	VT	VT	VT
130				gm/sec	lbs/hr	Ground level conc ug/m ³	MAGLC *, ug/m ³
131	P028	28	1		2.34		
132	P033	29	1		1.88		
133	P034	30	1		2.33		
134	P035	31	1		1.88		
135	P036	32	1		1.88		
136	Subtotal				10.31		
137	Check		VT	1.299039	10.31	875.5881	5754
138							
139	P026	1	2		0.35		
140	P027	3	2		2.00		
141	P029	7	2		2.00		
142	P030	8	2		0.35		
143	P032	12	2		2.00		
144	Subtotal				6.7		
145	Check		VT	0.84419	6.7	594.078	5754
146							
147	P037	40	3		1.88		
148	P038	41	3		2.33		
149	P039	42	3		1.88		
150	P040	43	3		1.88		
151	P023	44	3		1.38		
152	Subtotal				9.35		
153	Check		VT	1.178081	9.35	295.3665	5754
154							
155	L001	Tote Wash	4		0		
156	L002	Part Wash	4		0		
157	P063	Tote Fill	4		0		
158	Subtotal				0		
159	Check		VT	0	0	0	5754
160							
161	P014	mixer	5		0.08		
162	Subtotal		VT	0.01008	0.08	20.74199	5754
163							
164	P047	10	6		0.69		

165	P049	12	6		0.33			
166	Subtotal				1.02			
167	Check		VT	0.128518	1.02	48.59456	5754	
168								
169	P042	4	7		0.69			
170	P050	15	7		0.33			
171	P053	18	7		0.14			
172	Subtotal				1.16			
173	Check		VT	0.146158	1.16	65.9328	5754	
174								
175	P052	17	9		0.53			
176	Subtotal		VT	0.06678	0.53	28.93421	5754	
177								
178	P059	48	11		1.71			
179	Subtotal		VT	0.215456	1.71	186.9388	5754	
180								
181	P060	49	64&68		2.60			
182	Subtotal		VT	0.327595	2.6	150.3752	5754	
183								
184	P051	16	88		0.93			
185	Subtotal		VT	0.117178	0.93	41.99948	5754	
186	Total			4.33307	34.39	2308.55	5754	
187								
188	Total 1-hour ground level concentrations of VT compared to MAGLC							
189	2308.55	1-hour ground level conc., ug/m ³			=	0.40121	Dimens	
190	5754	MAGLC, ug/m ³					ionless	
191								
192	Pollutant:		Styrene	Methyl Methacrylate	Vinyl Toluene			
193	Emission Rate (lbs/hr)		26.7035	21.169	34.39			
194	TLV (mg/m ³):		85.2	204.7	241.7			
195	MAGLC (ug/m ³):		2,029	4,875	5,754			
196	1-hour ground level conc., ug/m ³		1,984	2,176	2,309			
197								
198	*Toxic Air Pollutants: TLV is Threshold Limit Value, MAGLC is Maximum Allowable Ground Level Concentration, mg is milligram, ug is microgram, m is meter, conc. is concentration, MMA is methyl methacrylate and VT is vinyl toluene.							

Table C: Total VOC Emission Rates and Allowable VOC Emission Rates

A	B	C	D	E	F	G	H	I
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3	EU#	Co. ID	Total VOC, lbs/hr	Variability factor	Allowable VOC, lbs/hr	Allowable VOC, lbs/day	Allowable VOC, tons/yr	
4	L001	Tote Wash	1.667	0.999	1.67	39.97	7.29	
5	L002	Part Wash	2	0.998	2.00	47.904	8.74248	
6	P014	Mixer	1.69	0.986	1.67	39.99	7.30	
7	P023	44	6.6773	0.45	3.00	40	7.3	
8	P026	1	1.9	1.053	2.00	40	7.3	
9	P027	3	0.72	2.7786667	2.00	40.00	7.30	
10	P028	28	2.38	1.05	2.50	40	7.3	
11	P029	7	0.72	2.7786667	2.00	40.00	7.30	
12	P030	8	1.9	1.053	2.00	40	7.3	
13	P032	12	0.72	2.7786667	2.00	40.00	7.30	
14	P033	29	2.3857	1.048	2.50	40	7.3	
15	P034	30	2.38	1.05	2.50	40	7.3	
16	P035	31	2.8972	1.036	3.00	40	7.3	
17	P036	32	2.8972	1.036	3.00	40	7.3	
18	P037	40	2.8972	1.036	3.00	40	7.3	
19	P038	41	3.5669	1.036	3.70	40	7.3	
20	P039	42	1.9315	1.036	2.00	40	7.3	
21	P040	43	1.9315	1.036	2.00	40	7.3	
22	P042	4	0.76	1.316	1.00	24.00	4.38	
23	P047	10	0.75	1.334	1.00	24.01	4.38	
24	P049	12	0.87	1.15	1.00	24.01	4.38	
25	P050	15	0.39	2.566	1.00	24.02	4.38	
26	P051	16	1.01	1.486	1.50	36.02	6.57	
27	P052	17	0.87	1.15	1.00	24.01	4.38	
28	P053	18	0.39	2.566	1.00	24.02	4.38	
29	P059	48	1.81	1.105	2.00	40	7.3	
30	P060	49	2.58	1.066	2.75	40	7.3	
31	P063	Tote Fill	1	1	1.00	24	4.38	
32	Total		51.6915	37.978	55.7902	1011.96	184.6827	
33								
34								
35	Stack		Emissions Unit Number		Allowable VOC, lbs/hr			
36	Stack 1		P028, P033, P034, P035, P036		13.50121			
37	Stack 2		P026, P027, P029, P030, P032		10.00332			
38	Stack 3		P023, P037, P038, P039, P040		13.70366			

39	Stack 4	L001, L002, P063	4.661333			
40	Stack 5	P014	1.66634			
41	Stack 6	P047 P049	2.001			
42	Stack 7	P042, P050, P053	3.00164			
43	Stack 9	P052	1.0005			
44	Stack 11	P059	2.00005			
45	Stack 88	P051	1.50086			
46	Stacks 64 & 68	P060	2.75028			
47	Check Total		55.7902			
48						
49	Cleanup VOC Emissions				2.724	
50	Total VOC Emissions				187.41	

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
- 2.a changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
 - 2.b changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled;
 - 2.c physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.) ; and
 - 2.d changes in each emissions units' styrene, methyl methacrylate, or vinyl toluene emissions in pounds per hour, not including fugitive emissions, associated with only shifts in production from one source to another, vented to a stack or stacks by a group of emissions units as detailed in Table B of this section shall not be considered modifications provided the aggregate emissions emitted from each stack are less than the modeled styrene, methyl methacrylate, or vinyl toluene emission rate, in pounds per hour, for each stack, in column F of Table B and not is not a change as detailed above in 2.a, 2.b, and 2.c.

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

3. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy":
 - 3.a a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
 - 3.b documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
 - 3.c where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

4. The Ohio EPA will not consider shifts in production from one source to another to be a modification under rule 3734-31-01 as long as no physical changes or changes in the method of operation occur and as long as the following styrene emission limits for each stack are met:

Stack	Emissions Unit Number	Allowable styrene emission rate (lbs/hr)
Stack 1	P028, P033, P034, P035, P036	9.032
Stack 2	P026, P027, P029, P030, P032	4.157
Stack 3	P023, P037, P038, P039, P040	6.477
Stack 4	L001, L002, P063	0.23
Stack 5	P014	0.6
Stack 6	P047, P049	0.82
Stack 7	P042, P050, P053	1.78
Stack 9	P052	0.32
Stack 11	P059	1.08
Stack 88	P051	0.57
Stack 64 & 68	P060	1.64

- 4.a The permittee shall use the calculation methodologies established in Part III for determining the actual average hourly styrene emission rate for each emissions unit each day.

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- 4.b The permittee shall maintain daily records of the total actual average hourly styrene emission rate for each stack using the combined actual styrene emissions for the group of emissions units designated for each stack as identified above .**

- 4.c The permittee shall submit deviation (excursion) reports to the Cleveland Division of Air Quality for each day that the actual average hourly styrene emission rate for any stack exceeded the allowable styrene emission rate noted above for the stack. The deviation reports shall be submitted within 30 days after the exceedance occurs.**

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
L001 - tote washer that uses a monomer mixture to clean resin totes.	OAC rule 3745-31-05(A)(3)	39.97 lbs of volatile organic compound (VOC) emissions/day (stack emissions) 7.29 tons/year of VOC emissions (stack emissions) The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(O)(2) and 40 CFR Part 63, Subpart WWWW. See Section A.I.2 below.
	OAC rule 3745-21-09(O)(2)	See Section A.II below.
	40 CFR Part 63, Subpart WWWW	The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a The tote washer is not a conventional cold cleaning equipment, therefore, some

Emissions Unit ID: L001

requirements in the OAC rule 3745-21-09(O)(2) are not applicable to this emissions unit.

- 2.b** This emissions unit does not employ any halogenated organic solvents. Therefore, this emissions unit is not subject to the applicable provisions of 40 CFR Part 63, Subpart T.
- 2.c** The cold cleaner shall be equipped with a device for draining the cleaned parts; and if the solvent has a vapor pressure greater than 0.6 pound per square inch absolute, measured at 100 degrees Fahrenheit, the drainage facility shall be constructed internally so that parts are enclosed under the cover during drainage, unless an internal type drainage device cannot fit into the cleaning system.

II. Operational Restrictions

1. The cold cleaner shall be operated and maintained in accordance with the following practices to minimize solvent evaporation from the emissions unit:
 - a. provide a permanent, legible, conspicuous label, summarizing the operating requirements;
 - b. store waste solvent in covered containers; and
 - c. clean only materials that are neither porous nor absorbent.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for this emissions unit:
 - a. the total number of washes performed; and
 - b. the VOC emissions, in lbs, as calculated using the following equation:

$$\text{VOC emissions} = (0.94 \text{ lb of VOC emissions/wash}^*) \times (\text{A.III.1.a, the total number of washes/day})$$

* The emission factor of 0.94 lb of VOC emissions/wash was developed by the permittee. Should a more accurate emission factor be developed in the future, the permittee shall use it, provided the emission factor is mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

2. The permittee shall maintain the following records in written or electronic form.
 - a. the types of solvents employed in the cold cleaner; and
 - b. the vapor pressure of each solvent, in pounds per square inch absolute (psia), measured at 100 degrees Fahrenheit.

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PTI A

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Emissions Unit ID: L001

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of the following:
 - a. all exceedances of the daily VOC emission limitation, and a record of what the actual VOC emissions were for each such day; and
 - b. all exceedances of the allowable vapor pressure for the solvent.
2. The quarterly deviation reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total VOC emissions, in tons, from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emission limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
 - 1.a **Emission Limitation:** 39.97 lbs/day of VOC emissions (stack emissions)

Applicable Compliance Method: The VOC emission limitation was established by the use of emission factors developed by the permittee and by the calculation method outlined in Section A.III.1.

Compliance with the VOC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- 1.b **Emission Limitation:** 7.29 tons/year of VOC emissions (stack emissions)

Applicable Compliance Method: The annual VOC emission limitation was established by multiplying the daily VOC emission limitation (40 lbs of VOC emissions/day) by 365 days/year, and dividing by 2,000 lbs/ton. Therefore compliance with the annual VOC emission limitation is assumed while compliance is maintained with the daily VOC emission limitation.

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2561 issued 9/9/1993.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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L001 - tote washer that uses
 a monomer mixture to clean
 resin totes

2. Additional Terms and Conditions

2.a Air Toxic Policy Clarifying Language

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

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PTI A

Issued: 11/16/2004

Emissions Unit ID: L001

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
L002 - fully enclosed, automated parts washer that utilizes a monomer mixture to wash tubes, parts and filters	OAC rule 3745-31-05(A)(3)	47.90 lbs of volatile organic compounds (VOC) emissions/day (stack emissions) 8.74 tons of VOC emissions/yr (stack emissions)
	OAC rule 3745-21-09(O)(2)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(O)(2) and 40 CFR Part 63 Subpart WWWW. See Section A.I.2 below.
	40 CFR Part 63, Subpart WWWW	See Sections A.I.2.c and A.II.1 below. The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a The parts washer is not built as conventional cold cleaning equipment, therefore, some requirements in the OAC rule 3745-21-09(O)(2) are not applicable to this emissions unit.
- 2.b This emissions unit does not employ an halogenated organic solvents. Therefore, this emissions unit is not subject to the applicable provisions of 40 CFR Part 63, Subpart T.
- 2.c The cold cleaner shall be equipped with a device for draining the cleaned parts; and if the solvent has a vapor pressure greater than 0.6 pound per square inch absolute (psia), measured at 100 degrees Fahrenheit, the drainage facility shall be constructed internally so that parts are enclosed under the cover during drainage, unless an internal type drainage device cannot fit into the cleaning system.

II. Operational Restrictions

- 1. The cold cleaner shall be operated and maintained in accordance with the following practices to minimize solvent evaporation from the unit:
 - a. provide a permanent, legible, conspicuous label, summarizing the operating requirements;
 - b. store waste solvent in covered containers;
 - c. close the cover whenever parts are not being handled in the cleaner;
 - d. drain the cleaned parts until dripping ceases; and
 - e. clean only materials that are neither porous nor absorbent.

III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
 - a. the total number of washes performed/day; and
 - b. the VOC emissions, in lbs, as calculated using the following equation:

$$\text{VOC emissions} = (1.10 \text{ lbs of VOC emissions/wash}^*) \times (\text{A.III.1.a, the total number of}$$

washes/day)

* The emission factor of 1.10 lbs of VOC emissions/wash was developed by the permittee. Should a more accurate emission factor be developed in the future, the permittee shall use it, provided the emission factor is mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

2. The permittee shall maintain the following records in written or electronic form.

- a. the types of solvents employed in the cold cleaner; and
- b. the vapor pressure of each solvent, in pounds per square inch absolute (psia), measured at 100 degrees Fahrenheit.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of the following:
 - a. all exceedances of the daily VOC emission limitation, and a record of what the actual VOC emissions were for each such day; and
 - b. all exceedances of the allowable vapor pressure for the solvent.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with the General Terms and Conditions of this permit.
3. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total VOC emissions, in tons, from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emission limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
 - 1.a **Emission Limitation:** 47.9 lbs of VOC emissions/day (stack emissions).

Applicable Compliance Method: The VOC emission limitation was established by the use of emission factors developed by the permittee and by the calculation method outlined in Section A.III.1.

Compliance with the daily VOC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- 1.b **Emission Limitation:** 8.74 tons of VOC emissions/yr (stack emissions).

Applicable Compliance Method: The annual VOC emission limitation was established by multiplying the daily VOC emission limitation (47.9 lbs of VOC emissions/day) by 365 days/year, and dividing by 2,000 lbs/ton. Therefore compliance with the annual VOC emission limitation is assumed while compliance is maintained with the daily VOC emission limitation.

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2561 issued 9/9/1993.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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L002 - fully enclosed,
automated parts washer that
utilizes a monomer mixture
to wash tubes, parts and
filters

2. Additional Terms and Conditions

- 2.a Air Toxic Policy Clarifying Language

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

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Issued

Facility ID: 1318544510

Emissions Unit ID: L002

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
P014 - Morehouse mixer contains two mix kettles with 78 cubic feet of volume that provide resin mixes for use in laminates, equipped with 700 acfm baghouse.	OAC rule 3745-31-05(A)(3)	<p>1.67 lbs of organic compound (OC) emissions/hr, including cleanup material (stack emissions)</p> <p>39.99 lbs of OC emissions/day</p> <p>7.3 tons of OC emissions/yr, including cleanup material (stack emissions)</p> <p>0.071 lb of particulate emissions (PE)/hr (stack emissions)</p> <p>0.01 grain of PE/dscf (stack emissions)</p> <p>0.31 ton of PE/yr (stack emissions)</p> <p>There shall be no visible PE from the baghouse stack serving this emissions unit.</p>

OAC rule 3745-21-07(G)(2)	The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.
OAC rule 3745-17-07(A)(1)	The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3). The visible PE limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-11(B)	The PE limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
40 CFR Part 63, Subpart WWWW	The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a** The liquid organic material in the mix operations include styrene and methyl methacrylate which are photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5). Therefore, all of the OC emissions from this emissions unit count toward the hourly limit, including the OC emissions from any non-photochemically reactive materials used in the mix operations.
- 2.b** The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the

Ohio Environmental Protection Agency (Ohio EPA), through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

II. Operational Restrictions

1. The permittee shall operate the baghouse particulate control system whenever dry filler is being added to this emissions unit.
2. The pressure drop across the baghouse shall be maintained within the range of 1.5 to 7.5 inches of water while the emissions unit is in operation.
3. The permittee shall use a closed feed system to charge non-liquid material and shall use covers over the mixing kettles.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
 - a. the company identification for each liquid resin mix manufactured, and each photochemically reactive cleanup material employed;
 - b. the OC concentration of each liquid resin mix manufactured, in lbs/cubic ft;
 - c. the percent styrene of each liquid resin mix manufactured;
 - d. the OC concentration of each cleaning monomer employed, in lbs/cubic ft;
 - e. the number of cleaning cycles conducted;
 - f. the total number of batches of liquid resin mix manufactured;
 - g. the total hours of operation;
 - h. the total OC emissions for all resin batches, in lbs [(f) x (b) x (mixer volume, 78 cubic ft/batch) x (2 volume changes)];
 - i. the total styrene emissions for all resin batches, in lbs [(c) x (f) x (b) x (mixer volume, 78 cubic ft/batch) x (2 volume changes)];

Emissions Unit ID: P014

- j. the total OC emissions from all cleanup materials employed, in lbs $[(d) \times (e) \times (\text{mixer volume, 78 cubic ft/batch}) \times (2 \text{ volume changes})]$;
 - k. the total OC emissions from all resin batches and cleanup materials, in lbs $[(h) + (i)]$;
 - l. the average hourly OC emission rate, in lbs/hr (k / g) ; and
 - m. the average hourly styrene emission rate, in lbs/hr (i / g) .
2. The permittee shall properly, operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
 3. The permittee shall record, for each day, all periods of time during which the baghouse was not in operation when the emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following information:
 - a. all periods of time when the pressure drop across the baghouse did not comply with the allowable range; and
 - b. all exceedances of the hourly and daily OC emission limitation, and what the calculated hourly and daily OC emissions were for each exceedance.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emission limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
 - 1.a **Emission Limitation:** 1.67 lbs/hr of OC emissions, including photochemically reactive cleanup material (stack emissions).

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee and the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

If required, the permittee shall demonstrate compliance with the hourly OC emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4, 18 and 25, as appropriate.

- 1.b **Emission Limitation:** 39.99 lbs of OC emissions/day

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- 1.c **Emission Limitation:** 7.3 tons of OC emissions/yr, including photochemically reactive cleanup material (**stack emissions**)

Applicable Compliance Method:

The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore compliance with the annual OC emission limitation is assumed while compliance is maintained with the daily OC emission limitation.

- 1.d **Emission Limitation:** There shall be no visible PE from the baghouse stack serving this emissions unit.

Applicable Compliance Method: If required, compliance shall be determined through visible PE observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22 and the procedures specified in OAC rule 3745-17-03(B)(1).

- 1.e **Emission Limitations:** 0.071 lb of PE/hr; 0.01 of grain/dscf

Applicable Compliance Method: The hourly emission limitation was established by the following methodology:

$$\text{AHER} = (\text{BFR}) \times (\text{AV}) \times (\text{ST/AT}) \times (\text{BEF}) \times (\text{TI}) \times (\text{CONV}) = 0.071 \text{ lb PE/hr}$$

where:

AHER = maximum hourly emission rate (0.071 lb of PE/hr);

BFR = baghouse flow rate (700 scfm);

AV = the air variability factor (120%);

ST = standard temperature (530 degrees Rankine);

AT = actual temperature (530 degrees Rankine);

BEF = baghouse efficiency (0.010 grain/dscf);

TI = time (60 minutes/hr); and

CONV = conversion factor 1 lb/7,000 grains).

If required, the permittee shall determine compliance with the emission limitations through emission tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 through 5.

1.f **Emission Limitation:** 0.31 ton of PE/yr

Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hours/year, and dividing by 2,000 pounds/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-1015 and 9/22/1993.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P014 - Morehouse mixer contains two mix kettles with 78 cubic feet of volume that provide resin mixes for use in laminates. Equipped with 700 ACFM fabric filter bughouse		

2. Additional Terms and Conditions

2.a Air Toxic Policy Clarifying Language

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

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PTI A

Issued: 11/16/2004

Emissions Unit ID: P014

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
P023 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 44	OAC rule 3745-31-05(A)(3)	3.0 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)
		40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
		7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)
		2.40 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)
		0.354 lb of particulate emissions (PE)/hr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)

Emissions Unit ID: P023

1.550 tons of PE/yr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)

Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

See Section A.1.2 below.

OAC rule 3745-21-07(G)(2)

The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-07(A)(1)

The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-11(B)

The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

40 CFR Part 63, Subpart WWWW

The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a** The PE from emission units P023, P037, P038, P039, and P040 are vented to dust collector #6.
- 2.b** The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
 - a. the name of each type of pultrusion part;
 - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
 - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
 - d. the wet area for each type of pultrusion part, in square feet;
 - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
 - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];
 - g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
 - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
 - i. the total number of hours this emissions unit was in operation; and
 - j. the average hourly OC emission rate, in lbs/hr (g/i) ; and
 - k. the average hourly styrene emission rate, in lbs/hr (h/i).

2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
 - a. the volume of each cleanup material dispensed, in gallons;
 - b. the volume of each cleanup material returned, in gallons;
 - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
 - d. the OC content of each cleanup material employed, in lbs/gallon; and
 - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
 - 1.a **Emission Limitation:** 3.0 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
 - 1.b **Emission Limitation:** 40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified by in Section A.III.1.
 - 1.c **Emission Limitation:** 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).

Applicable Compliance Method:

The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore compliance

with the annual OC emission limitation is assumed while compliance is maintained with the daily OC emission limitation.

- 1.d **Emission Limitation:** 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)

Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

- 1.e **Emission Limitation:** Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

- 1.f **Emission Limitation:** 0.354 lb of PE/hr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)

Applicable Compliance Method: The hourly PE limitation was established by the following methodology:

$$\text{HER} = (\text{DCFR}) \times (\text{AV}) \times (\text{DCEF}) \times (\text{TI}) \times (\text{CONV}) = 0.354 \text{ lb PE/hr}$$

where:

HER = hourly emission rate (0.354 lb of PE/hr);
 DCFR = dust collector flow rate (3,414 dscfm);
 AV = the air variability factor (121%);
 DCEF = dust collector efficiency (0.01 grain/dscf);
 TI = time (60 minutes/hr); and
 CONV = conversion factor 1 lb/7,000 grains).

If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.

- 1.g **Emission Limitation:** 1.55 tons of PE/yr, from emissions units P023, P037, P038, P039 and P040 combined (**stack emissions**)

Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2382 issued 4/29/1992 and in PTI 13-2752 issued 11/17/1993.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property,
and/or Equipment

Applicable Rules/Requirements

Applicable Emissions
Limitations/Control Measures

P023 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw. Company ID is Pultrusion Line Number 44

2. Additional Terms and Conditions

2.a Air Toxic Policy Clarifying Language

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

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PTI A

Issued: 11/16/2004

Emissions Unit ID: P023

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
P026 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 1.	OAC rule 3745-31-05(A)(3)	2.0 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)
		40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
		7.30 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)
		2.40 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)
		0.268 lb of particulate emissions (PE)/hr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

1.174 tons of PE/yr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

See Section A.1.2 below.

OAC rule 3745-21-07(G)(2)

The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-07(A)(1)

The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-11(B)

The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

40 CFR Part 63, Subpart WWWW

The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a** The PE from emission units P026, P027, P029, P030, and P032 are vented to dust collector #8.

- 2.b** The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
 - a. the name of each type of pultrusion part;
 - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
 - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
 - d. the wet area for each type of pultrusion part, in square feet;
 - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
 - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];
 - g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
 - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
 - i. the total number of hours this emissions unit was in operation; and
 - j. the average hourly OC emission rate, in lbs/hr (g/i) ; and
 - k. the average hourly styrene emission rate, in lbs/hr (h/i).
2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
 - a. the volume of each cleanup material dispensed, in gallons;

- b. the volume of each cleanup material returned, in gallons;
 - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
 - d. the OC content of each cleanup material employed, in lbs/gallon; and
 - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed).
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
 4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.

Emissions Unit ID: P026

2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
 - 1.a **Emission Limitation:** 2.0 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- 1.b **Emission Limitation:** 40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified by in Section A.III.1.

- 1.c **Emission Limitation:** 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).

Applicable Compliance Method:

The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore compliance with the annual OC emission limitation is assumed while compliance is maintained with the daily OC emission limitation.

- 1.d **Emission Limitation:** 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037,

P038, P039, and P040 combined (fugitive emissions)

Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

- 1.e **Emission Limitation:** Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

- 1.f **Emission Limitation:** 0.268 lb of particulate emissions (PE)/hr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

Applicable Compliance Method: The hourly PE limitation was established by the following methodology:

$$\text{HER} = (\text{DCFR}) \times (\text{AV}) \times (\text{DCEF}) \times (\text{TI}) \times (\text{CONV}) = 0.268 \text{ lb PE/hr}$$

where:

HER = hourly emission rate (0.268 lb of PE/hr);
 DCFR = dust collector flow rate (2,585 dscfm);
 AV = the air variability factor (121%);
 DCEF = dust collector efficiency (0.01 grain/dscf);
 TI = time (60 minutes/hr); and
 CONV = conversion factor 1 lb/7,000 grains).

If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.

- 1.g **Emission Limitation:** 1.174 tons of PE/yr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

Glastic Corporation Cleveland Facility
PTI Application: 13-02802
Issued

Facility ID: 1318544510

Emissions Unit ID: P026

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2382 issued 4/29/1992.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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P026 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw. Company ID is Pultrusion Line Number 1

2. Additional Terms and Conditions

2.a Air Toxic Policy Clarifying Language

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
P027 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 3.	OAC rule 3745-31-05(A)(3)	2.00 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)
		40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
		7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)
		2.40 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)

0.268 lb of particulate emissions (PE)/hr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

1.174 tons of PE/yr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

See Section A.1.2 below.

OAC rule 3745-21-07(G)(2)

The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-07(A)(1)

The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-11(B)

The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

Glastic Corporation Cleveland Facility

PTI Application: 12-02802

Issued

Facility ID: 1318544510

Emissions Unit ID: P027

40 CFR Part 63, Subpart
WWWW

The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a** The PE from emission units P026, P027, P029, P030, and P032 are vented to dust collector #8.
- 2.b** The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
 - a. the name of each type of pultrusion part;
 - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
 - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
 - d. the wet area for each type of pultrusion part, in square feet;
 - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
 - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];
 - g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
 - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];

- i. the total number of hours this emissions unit was in operation; and
 - j. the average hourly OC emission rate, in lbs/hr (g/i) ; and
 - k. the average hourly styrene emission rate, in lbs/hr (h/i).
2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
 - a. the volume of each cleanup material dispensed, in gallons;
 - b. the volume of each cleanup material returned, in gallons;
 - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
 - d. the OC content of each cleanup material employed, in lbs/gallon; and
 - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed).
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

Emissions Unit ID: P027

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitation for this emissions unit was exceeded, and what the hourly and/or daily OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
 - 1.a **Emission Limitation:** 2.00 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- 1.b Emission Limitation: 40 lbs OC emissions/day, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- 1.c **Emission Limitation:** 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).

Applicable Compliance Method:

The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore compliance with the annual OC emission limitation is assumed while compliance is maintained with the daily OC emission limitation.

- 1.d **Emission Limitation:** 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)

Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

- 1.e **Emission Limitation:** Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

- 1.f **Emission Limitation:** 0.268 lb of particulate emissions (PE)/hr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

Applicable Compliance Method: The hourly PE limitation was established by the following methodology:

$$\text{HER} = (\text{DCFR}) \times (\text{AV}) \times (\text{DCEF}) \times (\text{TI}) \times (\text{CONV}) = 0.268 \text{ lb PE/hr}$$

where:

HER = hourly emission rate (0.268 lb of PE/hr);
 DCFR = dust collector flow rate (2,585 dscfm);
 AV = the air variability factor (121%);
 DCEF = dust collector efficiency (0.01 grain/dscf);
 TI = time (60 minutes/hr); and
 CONV = conversion factor (1 lb/7,000 grains).

Emissions Unit ID: P027

If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.

- 1.g **Emission Limitation:** 1.174 tons of PE/yr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2382 issued 4/29/1992.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property,
and/or Equipment

Applicable Rules/Requirements

Applicable Emissions
Limitations/Control Measures

P027 - pultrusion press with a bath section, heated die and curing section, and cut-off saw. Company ID is Pultrusion Line Number 3

2. Additional Terms and Conditions

2.a Air Toxic Policy Clarifying Language

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
P028 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 28.	OAC rule 3745-31-05(A)(3)	2.5 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)
		40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
		7.3 tons of OC emissions/yr, from the pultrusion part (fugitive emissions)
		2.40 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)
		0.475 lb of particulate emissions (PE)/hr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

2.082 tons of PE/yr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

See Section A.1.2 below.

OAC rule 3745-21-07(G)(2)

The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-07(A)(1)

The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-11(B)

The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

40 CFR Part 63, Subpart WWWW

The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a** The PE from emission units P028, P033, P034, P035 and P036 are vented to dust collector #7.

- 2.b** The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
 - a. the name of each type of pultrusion part;
 - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
 - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
 - d. the wet area for each type of pultrusion part, in square feet;
 - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
 - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];
 - g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
 - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
 - i. the total number of hours this emissions unit was in operation; and
 - j. the average hourly OC emission rate, in lbs/hr (g/i) ; and
 - k. the average hourly styrene emission rate, in lbs/hr (h/i).
2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
 - a. the volume of each cleanup material dispensed, in gallons;

- b. the volume of each cleanup material returned, in gallons;
 - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
 - d. the OC content of each cleanup material employed, in lbs/gallon; and
 - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
 4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly OC emission limitation for this emissions unit was exceeded, and what the hourly OC emissions were for each such day.

Emissions Unit ID: P028

2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
 - 1.a **Emission Limitation:** 2.5 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
 - 1.b **Emission Limitation:** 40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
 - 1.c **Emission Limitation:** 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).

Applicable Compliance Method:

The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore compliance with the annual OC emission limitation is assumed while compliance is maintained with the daily OC emission limitation.
 - 1.d **Emission Limitation:** 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037,

P038, P039, and P040 combined (fugitive emissions)

Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

- 1.e **Emission Limitation:** Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

- 1.f **Emission Limitation:** 0.475 lb of particulate emissions (PE)/hr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

Applicable Compliance Method: The hourly PE limitation was established by the following methodology:

$$\text{HER} = (\text{DCFR}) \times (\text{AV}) \times (\text{DCEF}) \times (\text{TI}) \times (\text{CONV}) = 0.475 \text{ lb PE/hr}$$

where:

HER = hourly emission rate (0.475 lb of PE/hr);
 DCFR = dust collector flow rate (4,584 dscfm);
 AV = the air variability factor (121%);
 DCEF = dust collector efficiency (0.01 grain/dscf);
 TI = time (60 minutes/hr); and
 CONV = conversion factor 1 lb/7,000 grains).

If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.

- 1.g **Emission Limitation:** 2.082 tons of PE/yr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

Glastic Corporation Cleveland Facility

PTI Application: 13-02802

Issued

Facility ID: 1318544510

Emissions Unit ID: P028

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2382 issued 4/29/1992.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property,
and/or Equipment

Applicable Rules/Requirements

Applicable Emissions
Limitations/Control Measures

P028 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw. Company ID is Pultrusion Line Number 28

2. **Additional Terms and Conditions**

- 2.a Air Toxic Policy Clarifying Language

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
P029 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 7.	OAC rule 3745-31-05(A)(3)	<p>2.00 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)</p> <p>40 lbs OC emissions/day, from the pultrusion line (fugitive emissions)</p> <p>7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)</p>

2.40 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)

0.268 lb of particulate emissions (PE)/hr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

1.174 tons of PE/yr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

See Section A.1.2 below.

OAC rule 3745-21-07(G)(2)

The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-07(A)(1)

The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-11(B)

The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

40 CFR Part 63, Subpart
WWWW

The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a** The PE from emission units P026, P027, P029, P030, and P032 are vented to dust collector #8.
- 2.b** The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
 - a. the name of each type of pultrusion part;
 - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
 - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
 - d. the wet area for each type of pultrusion part, in square feet;
 - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
 - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];

- g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
 - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
 - i. the total number of hours this emissions unit was in operation; and
 - j. the average hourly OC emission rate, in lbs/hr (g/i) ; and
 - k. the average hourly styrene emission rate, in lbs/hr (h/i).
2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
 - a. the volume of each cleanup material dispensed, in gallons;
 - b. the volume of each cleanup material returned, in gallons;
 - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
 - d. the OC content of each cleanup material employed, in lbs/gallon; and
 - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed).
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
 - 1.a **Emission Limitation:** 2.00 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping

requirements specified in Section A.III.1.

- 1.b Emission Limitation: 40 lbs OC emissions/day, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- 1.c **Emission Limitation:** 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).

Applicable Compliance Method:

The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore compliance with the annual OC emission limitation is assumed while compliance is maintained with the daily OC emission limitation.

- 1.d **Emission Limitation:** 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)

Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

- 1.e **Emission Limitation:** Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

- 1.f **Emission Limitation:** 0.268 lb of particulate emissions (PE)/hr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

Applicable Compliance Method: The hourly PE limitation was established by the following methodology:

$$HER = (DCFR) \times (AV) \times (DCEF) \times (TI) \times (CONV) = 0.268 \text{ lb PE/hr}$$

where:

HER = hourly emission rate (0.268 lb of PE/hr);
 DCFR = dust collector flow rate (2,585 dscfm);
 AV = the air variability factor (121%);
 DCEF = dust collector efficiency (0.01 grain/dscf);
 TI = time (60 minutes/hr); and
 CONV = conversion factor (1 lb/7,000 grains).

If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.

- 1.g **Emission Limitation:** 1.174 tons of PE/yr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2382 issued 4/29/1992.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P029 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw. Company ID is Pultrusion Line Number 7		

2. Additional Terms and Conditions

- 2.a Air Toxic Policy Clarifying Language

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
P030 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 8.	OAC rule 3745-31-05(A)(3)	2.0 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)
		40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
		7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)
		2.40 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)
		0.268 lb of particulate emissions (PE)/hr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

1.174 tons of PE/yr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

See Section A.1.2 below.

OAC rule 3745-21-07(G)(2)	The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-07(A)(1)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-11(B)	The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
40 CFR Part 63, Subpart WWWW	The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a** The PE from emission units P026, P027, P029, P030, and P032 are vented to dust collector #8.

- 2.b** The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
 - a. the name of each type of pultrusion part;
 - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
 - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
 - d. the wet area for each type of pultrusion part, in square feet;
 - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
 - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];
 - g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
 - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
 - i. the total number of hours this emissions unit was in operation; and
 - j. the average hourly OC emission rate, in lbs/hr (g/i) ; and
 - k. the average hourly styrene emission rate, in lbs/hr (h/i).

2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
 - a. the volume of each cleanup material dispensed, in gallons;
 - b. the volume of each cleanup material returned, in gallons;
 - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
 - d. the OC content of each cleanup material employed, in lbs/gallon; and
 - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.

2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
 - 1.a **Emission Limitation:** 2.0 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- 1.b **Emission Limitation:** 40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified by in Section A.III.1.

- 1.c **Emission Limitation:** 7.3 tons of OC emissions/yr, from the pultrusion part (fugitive emissions).

Applicable Compliance Method:

The annual OC emission limitation was established by multiplying the daily OC emission limitation

Emissions Unit ID: P030

from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore compliance with the annual OC emission limitation is assumed while compliance is maintained with the daily OC emission limitation.

- 1.d **Emission Limitation:** 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)

Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

- 1.e **Emission Limitation:** Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

- 1.f **Emission Limitation:** 0.268 lb of particulate emissions (PE)/hr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

Applicable Compliance Method: The hourly PE limitation was established by the following methodology:

$$\text{HER} = (\text{DCFR}) \times (\text{AV}) \times (\text{DCEF}) \times (\text{TI}) \times (\text{CONV}) = 0.268 \text{ lb PE/hr}$$

where:

HER = hourly emission rate (0.268 lb of PE/hr);
 DCFR = dust collector flow rate (2,585 dscfm);
 AV = the air variability factor (121%);
 DCEF = dust collector efficiency (0.01 grain/dscf);
 TI = time (60 minutes/hr); and
 CONV = conversion factor (1 lb/7,000 grains).

If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.

- 1.g **Emission Limitation:** 1.174 tons of PE/yr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

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Glasti

PTI A

Issued: 11/16/2004

Emissions Unit ID: P030

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2382 issued 4/29/1992.

B. State Only Enforceable Section**I. Applicable Emissions Limitations and/or Control Requirements**

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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P030 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw. Company ID is Pultrusion Line Number 8

2. Additional Terms and Conditions**2.a Air Toxic Policy Clarifying Language**

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
P032 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 12.	OAC rule 3745-31-05(A)(3)	2.00 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)
		40 lbs OC emissions/day, from the pultrusion line (fugitive emissions)
		7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)
		2.40 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)
		0.268 lb of particulate emissions (PE)/hr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

1.174 tons of PE/yr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

See Section A.1.2 below.

OAC rule 3745-21-07(G)(2)

The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-07(A)(1)

The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-11(B)

The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

40 CFR Part 63, Subpart WWWW

The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

2.a The PE from emission units P026, P027, P029, P030, and P032 are vented to dust

collector #8.

- 2.b** The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
 - a. the name of each type of pultrusion part;
 - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
 - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
 - d. the wet area for each type of pultrusion part, in square feet;
 - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
 - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];
 - g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
 - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
 - i. the total number of hours this emissions unit was in operation; and
 - j. the average hourly OC emission rate, in lbs/hr (g/i) ; and

- k. the average hourly styrene emission rate, in lbs/hr (h/i).
2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
 - a. the volume of each cleanup material dispensed, in gallons;
 - b. the volume of each cleanup material returned, in gallons;
 - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
 - d. the OC content of each cleanup material employed, in lbs/gallon; and
 - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
 3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
 4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitation for this emissions unit was exceeded, and what the hourly and daily OC emissions were for each such day.

2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
 - 1.a **Emission Limitation:** 2.00 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
 - 1.b **Emission Limitation:** 40 lbs OC emissions/day, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
 - 1.c **Emission Limitation:** 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).

Applicable Compliance Method:

Emissions Unit ID: P032

The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore compliance with the annual OC emission limitation is assumed while compliance is maintained with the daily OC emission limitation.

- 1.d **Emission Limitation:** 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)

Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

- 1.e **Emission Limitation:** Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

- 1.f **Emission Limitation:** 0.268 lb of particulate emissions (PE)/hr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

Applicable Compliance Method: The hourly PE limitation was established by the following methodology:

$$\text{HER} = (\text{DCFR}) \times (\text{AV}) \times (\text{DCEF}) \times (\text{TI}) \times (\text{CONV}) = 0.268 \text{ lb PE/hr}$$

where:

HER = hourly emission rate (0.268 lb of PE/hr);
 DCFR = dust collector flow rate (2,585 dscfm);
 AV = the air variability factor (121%);
 DCEF = dust collector efficiency (0.01 grain/dscf);
 TI = time (60 minutes/hr); and
 CONV = conversion factor (1 lb/7,000 grains).

If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.

- 1.g **Emission Limitation:** 1.174 tons of PE/yr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

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PTI A

Issued: 11/16/2004

Emissions Unit ID: P032

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2382 issued 4/29/1992.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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P032 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw. Company ID is Pultrusion Line Number 12

2. Additional Terms and Conditions

2.a Air Toxic Policy Clarifying Language

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
P033 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 29.	OAC rule 3745-31-05(A)(3)	2.5 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions) 40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions) 7.30 tons of OC emissions/yr, from the pultrusion part (fugitive emissions) 2.40 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)

0.475 lb of particulate emissions (PE)/hr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

2.082 tons of PE/yr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

See Section A.1.2 below.

OAC rule 3745-21-07(G)(2)

The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-07(A)(1)

The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-11(B)

The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

40 CFR Part 63, Subpart
WWWW

The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a** The PE from emission units P028, P033, P034, P035 and P036 are vented to dust collector #7.
- 2.b** The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
 - a. the name of each type of pultrusion part;
 - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
 - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
 - d. the wet area for each type of pultrusion part, in square feet;
 - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
 - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];

- g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
 - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
 - i. the total number of hours this emissions unit was in operation; and
 - j. the average hourly OC emission rate, in lbs/hr (g/i) ; and
 - k. the average hourly styrene emission rate, in lbs/hr (h/i).
2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
 - a. the volume of each cleanup material dispensed, in gallons;
 - b. the volume of each cleanup material returned, in gallons;
 - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
 - d. the OC content of each cleanup material employed, in lbs/gallon; and
 - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed).
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
 - 1.a **Emission Limitation:** 2.5 lbs of OC emissions/hr, from the pultrusion part (fugitive emissions)

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping

requirements specified in Section A.III.1.

- 1.b **Emission Limitation:** 40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified by in Section A.III.1.

- 1.c **Emission Limitation:** 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).

Applicable Compliance Method:

The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore compliance with the annual OC emission limitation is assumed while compliance is maintained with the daily OC emission limitation.

- 1.d **Emission Limitation:** 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)

Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

- 1.e **Emission Limitation:** Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

- 1.f **Emission Limitation:** 0.475 lb of particulate emissions (PE)/hr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

Applicable Compliance Method: The hourly PE limitation was established by the following methodology:

$$HER = (DCFR) \times (AV) \times (DCEF) \times (TI) \times (CONV) = 0.475 \text{ lb PE/hr}$$

where:

HER = hourly emission rate (0.475 lb of PE/hr);
 DCFR = dust collector flow rate (4,584 dscfm);
 AV = the air variability factor (121%);
 DCEF = dust collector efficiency (0.01 grain/dscf);
 TI = time (60 minutes/hr); and
 CONV = conversion factor 1 lb/7,000 grains).

If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.

- 1.g **Emission Limitation:** 2.082 tons of PE/yr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2382 issued 4/29/1992.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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P033 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw. Company ID is Pultrusion Line Number 29

2. Additional Terms and Conditions

2.a Air Toxic Policy Clarifying Language

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
P034 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 30.	OAC rule 3745-31-05(A)(3)	2.5 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)
		40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
		7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)
		2.40 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)
		0.475 lb of particulate emissions (PE)/hr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

2.082 tons of PE/yr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

See Section A.1.2 below.

OAC rule 3745-21-07(G)(2)	The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-07(A)(1)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-11(B)	The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
40 CFR Part 63, Subpart WWWW	The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a** The PE from emission units P028, P033, P034, P035 and P036 are vented to dust collector #7.

- 2.b** The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
 - a. the name of each type of pultrusion part;
 - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
 - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
 - d. the wet area for each type of pultrusion part, in square feet;
 - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
 - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];
 - g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
 - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
 - i. the total number of hours this emissions unit was in operation; and
 - j. the average hourly OC emission rate, in lbs/hr (g/i) ; and
 - k. the average hourly styrene emission rate, in lbs/hr (h/i).

2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
 - a. the volume of each cleanup material dispensed, in gallons;
 - b. the volume of each cleanup material returned, in gallons;
 - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
 - d. the OC content of each cleanup material employed, in lbs/gallon; and
 - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.

2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
 - 1.a **Emission Limitation:** 2.5 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- 1.b **Emission Limitation:** 40 lbs of OC emissions/day, from the pultrusion line
- 1.c **Emission Limitation:** 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).

Applicable Compliance Method:

The annual OC emission limitation was established by multiplying the daily OC emission limitation

Emissions Unit ID: P034

from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore compliance with the annual OC emission limitation is assumed while compliance is maintained with the daily OC emission limitation.

- 1.d **Emission Limitation:** 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)

Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

- 1.e **Emission Limitation:** Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

- 1.f **Emission Limitation:** 0.475 lb of particulate emissions (PE)/hr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

Applicable Compliance Method: The hourly PE limitation was established by the following methodology:

$$\text{HER} = (\text{DCFR}) \times (\text{AV}) \times (\text{DCEF}) \times (\text{TI}) \times (\text{CONV}) = 0.475 \text{ lb PE/hr}$$

where:

HER = hourly emission rate (0.475 lb of PE/hr);
 DCFR = dust collector flow rate (4,584 dscfm);
 AV = the air variability factor (121%);
 DCEF = dust collector efficiency (0.01 grain/dscf);
 TI = time (60 minutes/hr); and
 CONV = conversion factor 1 lb/7,000 grains).

If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.

- 1.g **Emission Limitation:** 2.082 tons of PE/yr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

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Issued: 11/16/2004

Emissions Unit ID: P034

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2382 issued 4/29/1992.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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P034 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw. Company ID is Pultrusion Line Number 30

2. Additional Terms and Conditions

2.a Air Toxic Policy Clarifying Language

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
P035 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 31.	OAC rule 3745-31-05(A)(3)	<p>3.0 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)</p> <p>40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)</p> <p>7.30 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)</p>

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2.40 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)

0.475 lb of particulate emissions (PE)/hr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

2.082 tons of PE/yr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

See Section A.1.2 below.

OAC rule 3745-21-07(G)(2)

The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-07(A)(1)

The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-11(B)

The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

40 CFR Part 63, Subpart
WWWW

The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a** The PE from emission units P028, P033, P034, P035 and P036 are vented to dust collector #7.
- 2.b** The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
 - a. the name of each type of pultrusion part;
 - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
 - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
 - d. the wet area for each type of pultrusion part, in square feet;
 - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
 - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];

- g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
 - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
 - i. the total number of hours this emissions unit was in operation; and
 - j. the average hourly OC emission rate, in lbs/hr (g/i) ; and
 - k. the average hourly styrene emission rate, in lbs/hr (h/i).
2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
 - a. the volume of each cleanup material dispensed, in gallons;
 - b. the volume of each cleanup material returned, in gallons;
 - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
 - d. the OC content of each cleanup material employed, in lbs/gallon; and
 - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed).
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;

Emissions Unit ID: P035

- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitation for this emissions unit was exceeded, and what the hourly and/or daily OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
 - 1.a **Emission Limitation:** 3.0 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping

requirements specified in Section A.III.1.

- 1.b **Emission Limitation:** 40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified by in Section A.III.1.

- 1.c **Emission Limitation:** 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).

Applicable Compliance Method:

The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore compliance with the annual OC emission limitation is assumed while compliance is maintained with the daily OC emission limitation.

- 1.d **Emission Limitation:** 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)

Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

- 1.e **Emission Limitation:** Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

- 1.f **Emission Limitation:** 0.475 lb of particulate emissions (PE)/hr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

Applicable Compliance Method: The hourly PE limitation was established by the following methodology:

$$\text{HER} = (\text{DCFR}) \times (\text{AV}) \times (\text{DCEF}) \times (\text{TI}) \times (\text{CONV}) = 0.475 \text{ lb PE/hr}$$

where:

HER = hourly emission rate (0.475 lb of PE/hr);

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Facility ID: 1318544510

Emissions Unit ID: P035

DCFR = dust collector flow rate (4,584 dscfm);
AV = the air variability factor (121%);
DCEF = dust collector efficiency (0.01 grain/dscf);
TI = time (60 minutes/hr); and
CONV = conversion factor 1 lb/7,000 grains).

If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.

- 1.g **Emission Limitation:** 2.082 tons of PE/yr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2382 issued 4/29/1992.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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P035 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw. Company ID is Pultrusion Line Number 31

2. **Additional Terms and Conditions**

- 2.a Air Toxic Policy Clarifying Language

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
P036 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 32.	OAC rule 3745-31-05(A)(3)	3.0 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)
		40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
		7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)
		2.40 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)

Emissions Unit ID: P036

0.475 lb of particulate emissions (PE)/hr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

2.082 tons of PE/yr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

See Section A.1.2 below.

OAC rule 3745-21-07(G)(2)

The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-07(A)(1)

The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-11(B)

The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

40 CFR Part 63, Subpart WWWW

The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a** The PE from emission units P028, P033, P034, P035 and P036 are vented to dust collector #7.

- 2.b** The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
 - a. the name of each type of pultrusion part;
 - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
 - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
 - d. the wet area for each type of pultrusion part, in square feet;
 - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
 - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];
 - g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
 - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
 - i. the total number of hours this emissions unit was in operation; and
 - j. the average hourly OC emission rate, in lbs/hr (g/i) ; and
 - k. the average hourly styrene emission rate, in lbs/hr (h/i).

2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
 - a. the volume of each cleanup material dispensed, in gallons;
 - b. the volume of each cleanup material returned, in gallons;
 - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
 - d. the OC content of each cleanup material employed, in lbs/gallon; and
 - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
 - 1.a **Emission Limitation:** 3.0 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)
Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
 - 1.b **Emission Limitation:** 40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified by in Section A.III.1.
 - 1.c **Emission Limitation:** 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).
Applicable Compliance Method:

The annual OC emission limitation was established by multiplying the daily OC emission limitation

from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore compliance with the annual OC emission limitation is assumed while compliance is maintained with the daily OC emission limitation.

- 1.d **Emission Limitation:** 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)

Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

- 1.e **Emission Limitation:** Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

- 1.f **Emission Limitation:** 0.475 lb of particulate emissions (PE)/hr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

Applicable Compliance Method: The hourly PE limitation was established by the following methodology:

$$\text{HER} = (\text{DCFR}) \times (\text{AV}) \times (\text{DCEF}) \times (\text{TI}) \times (\text{CONV}) = 0.475 \text{ lb PE/hr}$$

where:

HER = hourly emission rate (0.475 lb of PE/hr);

DCFR = dust collector flow rate (4,584 dscfm);

AV = the air variability factor (121%);

DCEF = dust collector efficiency (0.01 grain/dscf);

TI = time (60 minutes/hr); and

CONV = conversion factor 1 lb/7,000 grains).

If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.

- 1.g **Emission Limitation:** 2.082 tons of PE/yr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

Glastic Corporation Cleveland Facility

PTI Application: 13-03802

Issued

Facility ID: 1318544510

Emissions Unit ID: P036

Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2382 issued 4/29/1992.

B. State Only Enforceable Section**I. Applicable Emissions Limitations and/or Control Requirements**

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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P036 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw. Company ID is Pultrusion Line Number 32

2. Additional Terms and Conditions**2.a Air Toxic Policy Clarifying Language**

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
P037 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 40	OAC rule 3745-31-05(A)(3)	<p>3.0 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)</p> <p>40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)</p> <p>7.30 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)</p> <p>2.40 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)</p>

Emissions Unit ID: P037

0.354 lb of particulate emissions (PE)/hr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)

1.550 tons of PE/yr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)

Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

See Section A.1.2 below.

OAC rule 3745-21-07(G)(2)

The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-07(A)(1)

The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-11(B)

The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

40 CFR Part 63, Subpart WWWW

The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a** The PE from emission units P023, P037, P038, P039, and P040 are vented to dust collector #6.

- 2.b** The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
 - a. the name of each type of pultrusion part;
 - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
 - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
 - d. the wet area for each type of pultrusion part, in square feet;
 - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
 - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];
 - g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
 - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
 - i. the total number of hours this emissions unit was in operation; and
 - j. the average hourly OC emission rate, in lbs/hr (g/i) ; and
 - k. the average hourly styrene emission rate, in lbs/hr (h/i).

2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
 - a. the volume of each cleanup material dispensed, in gallons;
 - b. the volume of each cleanup material returned, in gallons;
 - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
 - d. the OC content of each cleanup material employed, in lbs/gallon; and
 - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
 - 1.a **Emission Limitation:** 3.0 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
 - 1.b **Emission Limitation:** 40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified by in Section A.III.1.
 - 1.c **Emission Limitation:** 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore compliance with the annual OC emission limitation is

assumed while compliance is maintained with the daily OC emission limitation.

- 1.d **Emission Limitation:** 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)

Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

- 1.e **Emission Limitation:** Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

- 1.f **Emission Limitation:** 0.354 lb of PE/hr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)

Applicable Compliance Method: The hourly PE limitation was established by the following methodology:

$$\text{HER} = (\text{DCFR}) \times (\text{AV}) \times (\text{DCEF}) \times (\text{TI}) \times (\text{CONV}) = 0.354 \text{ lb PE/hr}$$

where:

HER = hourly emission rate (0.354 lb of PE/hr);
 DCFR = dust collector flow rate (3,414 dscfm);
 AV = the air variability factor (121%);
 DCEF = dust collector efficiency (0.01 grain/dscf);
 TI = time (60 minutes/hr); and
 CONV = conversion factor 1 lb/7,000 grains).

If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.

- 1.g **Emission Limitation:** 1.55 tons of PE/yr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)

Applicable Compliance Method: The annual PE limitation was established by multiplying the

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Emissions Unit ID: P037

hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2382 issued 4/29/1992.

B. State Only Enforceable Section**I. Applicable Emissions Limitations and/or Control Requirements**

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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P037 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw. Company ID is Pultrusion Line Number 40

2. Additional Terms and Conditions**2.a Air Toxic Policy Clarifying Language**

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
P038 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 41	OAC rule 3745-31-05(A)(3)	<p>3.7 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)</p> <p>40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)</p> <p>7.30 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)</p> <p>2.40 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)</p>

Emissions Unit ID: P038

0.354 lb of particulate emissions (PE)/hr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)

1.550 tons of PE/yr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)

Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

See Section A.1.2 below.

OAC rule 3745-21-07(G)(2)	The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-07(A)(1)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-11(B)	The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
40 CFR Part 63, Subpart WWWW	The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a** The PE from emission units P023, P037, P038, P039, and P040 are vented to dust collector #6.

- 2.b** The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
 - a. the name of each type of pultrusion part;
 - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
 - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
 - d. the wet area for each type of pultrusion part, in square feet;
 - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
 - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];
 - g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
 - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
 - i. the total number of hours this emissions unit was in operation; and
 - j. the average hourly OC emission rate, in lbs/hr (g/i) ; and
 - k. the average hourly styrene emission rate, in lbs/hr (h/i).
2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
 - a. the volume of each cleanup material dispensed, in gallons;

- b. the volume of each cleanup material returned, in gallons;
 - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
 - d. the OC content of each cleanup material employed, in lbs/gallon; and
 - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed).
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
 4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph

A.1.c.ii of the General Terms and Conditions of this permit.

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
 - 1.a **Emission Limitation:** 3.7 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- 1.b **Emission Limitation:** 40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified by in Section A.III.1.

- 1.c **Emission Limitation:** 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)

Applicable Compliance Method:

The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore compliance with the annual OC emission limitation is assumed while compliance is maintained with the daily OC emission limitation.

- 1.d **Emission Limitation:** 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)

Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

- 1.e **Emission Limitation:** Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

- 1.f **Emission Limitation:** 0.354 lb of PE/hr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)

Applicable Compliance Method: The hourly PE limitation was established by the following methodology:

$$\text{HER} = (\text{DCFR}) \times (\text{AV}) \times (\text{DCEF}) \times (\text{TI}) \times (\text{CONV}) = 0.354 \text{ lb PE/hr}$$

where:

HER = hourly emission rate (0.354 lb of PE/hr);
 DCFR = dust collector flow rate (3,414 dscfm);
 AV = the air variability factor (121%);
 DCEF = dust collector efficiency (0.01 grain/dscf);
 TI = time (60 minutes/hr); and
 CONV = conversion factor 1 lb/7,000 grains).

If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.

- 1.g **Emission Limitation:** 1.55 tons of PE/yr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)

Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

VI. Miscellaneous Requirements

Glastic Corporation Cleveland Facility

PTI Application: 13-03802

Issued

Facility ID: 1318544510

Emissions Unit ID: P038

1. The terms in this permit supercede those identified in PTI 13-2382 issued 4/29/1992.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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P039 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw. Company ID is Pultrusion Line Number 41

2. Additional Terms and Conditions

2.a Air Toxic Policy Clarifying Language

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
P039 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 42.	OAC rule 3745-31-05(A)(3)	<p>2.0 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)</p> <p>40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)</p> <p>7.30 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)</p> <p>2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)</p>

0.354 lb of particulate emissions (PE)/hr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)

1.550 tons of PE/yr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)

Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

See Section A.1.2 below.

OAC rule 3745-21-07(G)(2)	The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-07(A)(1)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-11(B)	The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
40 CFR Part 63, Subpart WWWW	The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a** The PE from emission units P023, P037, P038, P039, and P040 are vented to dust collector #6.
- 2.b** The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
- the name of each type of pultrusion part;
 - the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
 - the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
 - the wet area for each type of pultrusion part, in square feet;
 - the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
 - the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];
 - the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
 - the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
 - the total number of hours this emissions unit was in operation; and
 - the average hourly OC emission rate, in lbs/hr (g/i); and
 - the average hourly styrene emission rate, in lbs/hr (h/i).
2. The permittee shall maintain monthly records of the following information for emissions units

P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined::

- a. the volume of each cleanup material dispensed, in gallons;
 - b. the volume of each cleanup material returned, in gallons;
 - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
 - d. the OC content of each cleanup material employed, in lbs/gallon; and
 - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed).
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
 4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

IV. Reporting Requirements

Emissions Unit ID: P039

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
 - 1.a **Emission Limitation:** 2.0 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- 1.b **Emission Limitation:** 40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified by in Section A.III.1.

- 1.c **Emission Limitation:** 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).

Applicable Compliance Method:

The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore compliance with the annual OC emission limitation is assumed while compliance is maintained with the daily

OC emission limitation.

- 1.d **Emission Limitation:** 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)

Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

- 1.e **Emission Limitation:** Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

- 1.f **Emission Limitation:** 0.354 lb of PE/hr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)

Applicable Compliance Method: The hourly PE limitation was established by the following methodology:

$$\text{HER} = (\text{DCFR}) \times (\text{AV}) \times (\text{DCEF}) \times (\text{TI}) \times (\text{CONV}) = 0.354 \text{ lb PE/hr}$$

where:

HER = hourly emission rate (0.354 lb of PE/hr);
DCFR = dust collector flow rate (3,414 dscfm);
AV = the air variability factor (121%);
DCEF = dust collector efficiency (0.01 grain/dscf);
TI = time (60 minutes/hr); and
CONV = conversion factor 1 lb/7,000 grains).

If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.

- 1.g **Emission Limitation:** 1.55 tons of PE/yr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)

Applicable Compliance Method: The annual PE limitation was established by multiplying the

Glastic Corporation Cleveland Facility**PTI Application: 13-03802****Issued****Facility ID: 1318544510**

Emissions Unit ID: P039

hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2382 issued 4/29/1992.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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P039 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw. Company ID is Pultrusion Line Number 42

2. Additional Terms and Conditions

2.a Air Toxic Policy Clarifying Language

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
P040 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 43.	OAC rule 3745-31-05(A)(3)	2.0 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)
		40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
		7.30 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)
		2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)

0.354 lb of particulate emissions (PE)/hr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)

1.550 tons of PE/yr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)

Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

See Section A.1.2 below.

OAC rule 3745-21-07(G)(2)	The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-07(A)(1)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-11(B)	The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
40 CFR Part 63, Subpart WWWW	The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a** The PE from emission units P023, P037, P038, P039, and P040 are vented to dust collector #6.
- 2.b** The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
- the name of each type of pultrusion part;
 - the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
 - the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
 - the wet area for each type of pultrusion part, in square feet;
 - the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
 - the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];
 - the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
 - the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
 - the total number of hours this emissions unit was in operation; and
 - the average hourly OC emission rate, in lbs/hr (g/i); and
 - the average hourly styrene emission rate, in lbs/hr (h/i).
2. The permittee shall maintain monthly records of the following information for emissions units

P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined::

- a. the volume of each cleanup material dispensed, in gallons;
 - b. the volume of each cleanup material returned, in gallons;
 - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
 - d. the OC content of each cleanup material employed, in lbs/gallon; and
 - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed).
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
- a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

IV. Reporting Requirements

Emissions Unit ID: P040

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
 - 1.a **Emission Limitation:** 2.0 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- 1.b **Emission Limitation:** 40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified by in Section A.III.1.
- 1.c **Emission Limitation:** 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).

Applicable Compliance Method:

The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore compliance with the annual OC emission limitation is assumed while compliance is maintained with the daily

OC emission limitation.

- 1.d **Emission Limitation:** 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)

Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

- 1.e **Emission Limitation:** Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

- 1.f **Emission Limitation:** 0.354 lb of PE/hr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)

Applicable Compliance Method: The hourly PE limitation was established by the following methodology:

$$\text{HER} = (\text{DCFR}) \times (\text{AV}) \times (\text{DCEF}) \times (\text{TI}) \times (\text{CONV}) = 0.354 \text{ lb PE/hr}$$

where:

HER = hourly emission rate (0.354 lb of PE/hr);
 DCFR = dust collector flow rate (3,414 dscfm);
 AV = the air variability factor (121%);
 DCEF = dust collector efficiency (0.01 grain/dscf);
 TI = time (60 minutes/hr); and
 CONV = conversion factor 1 lb/7,000 grains).

If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.

- 1.g **Emission Limitation:** 1.55 tons of PE/yr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)

Applicable Compliance Method: The annual PE limitation was established by multiplying the

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PTI Application: 13-03803

Issued

Facility ID: 1318544510

Emissions Unit ID: P040

hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2382 issued 4/29/1992.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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P040 - pultrusion press with a bath section, heated die and curing section, and a cut-off saw. Company ID is Pultrusion Line Number 43

2. Additional Terms and Conditions

2.a Air Toxic Policy Clarifying Language

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P042 - laminate press with manual resin spreader. Company ID is laminate press number 4	OAC rule 3745-31-05(A)(3)	1.0 lb of organic compound (OC) emissions/hr from the laminate press (fugitive emissions)
		4.38 tons of OC emissions/yr, from the laminate press (fugitive emissions)
		0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined (fugitive emissions).

The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

OAC rule 3745-21-07(G)(2)

The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

40 CFR Part 63, Subpart WWWW

The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a** The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
 - a. the company identification of each liquid resin mix received for processing;
 - b. company identification of the OC emission factor (EF) for each liquid resin mix processed;

- c. company identification of the styrene emission factor (SEF) for each liquid resin mix processed;
 - d. the total hours of operation;
 - e. the total OC emissions from all liquid resin mixes employed, in lbs [summation of ((EF, in lbs of OC emissions/hr) x (d)) for each liquid resin mix];
 - f. the total styrene emissions from all liquid resin mixes employed, in lbs [summation of ((SEF, in lbs of styrene emissions/hr) x (d)) for each resin mix];
 - g. the average hourly OC emission rate, in lbs (e/d) ; and
 - h. the average hourly styrene emission rate, in lbs (f/d).
2. The permittee shall maintain monthly records of the following information for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined:
 - a. the volume of each cleanup material dispensed, in gallons;
 - b. the volume of each cleanup material returned, in gallons;
 - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
 - d. the OC content of each cleanup material employed, in lbs/gallon; and
 - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
 3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly OC emission limitation for this emissions unit was exceeded, and what the hourly OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.

3. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from both the laminate product and from all cleanup material employed) from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:

- 1.a **Emission Limitation:** 1.0 lb of OC emissions/hr, for the laminate press (fugitive emissions)

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- 1.b **Emission Limitation:** 4.38 tons of OC emissions/yr, for the laminate press (fugitive emissions)

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the hourly OC emission limitation by 8,760 hrs/yr, and dividing by 2,000 lbs/ton.

Compliance with the annual OC emission limitation is assumed while compliance is maintained with the hourly OC emission limitation.

- 1.c **Emission Limitation:** 0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined (fugitive emissions)

Applicable compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2485 issued 07/29/1992.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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P042 - laminate press with
manual resin spreader.
Company ID is Laminate
Press Number 4

2. Additional Terms and Conditions

2.a Air Toxic Policy Clarifying Language

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
P047 -laminated press with manual resin spreader. Company ID is laminate press number 10	OAC rule 3745-31-05(A)(3)	1.0 lb of organic compound (OC) emissions/hr from the laminate press (fugitive emissions)
		4.38 tons of OC emissions/yr, from the laminate press (fugitive emissions)
		0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined (fugitive emissions)
		The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

OAC rule 3745-21-07(G)(2)

The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

40 CFR Part 63, Subpart WWWW

The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a** The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
 - a. the company identification of each liquid resin mix received for processing;
 - b. company identification of the OC emission factor (EF) for each liquid resin mix processed;
 - c. company identification of the styrene emission factor (SEF) for each liquid resin mix processed;
 - d. the total hours of operation;

- e. the total OC emissions from all liquid resin mixes employed, in lbs [summation of ((EF, in lbs of OC emissions/hr) x (d)) for each liquid resin mix];
 - f. the total styrene emissions from all liquid resin mixes employed, in lbs [summation of ((SEF, in lbs of styrene emissions/hr) x (d)) for each resin mix];
 - g. the average hourly OC emission rate, in lbs (e/d) ; and
 - h. the average hourly styrene emission rate, in lbs (f/d).
2. The permittee shall maintain monthly records of the following information for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined:
 - a. the volume of each cleanup material dispensed, in gallons;
 - b. the volume of each cleanup material returned, in gallons;
 - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
 - d. the OC content of each cleanup material employed, in lbs/gallon; and
 - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed).
 3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly OC emission limitation for this emissions unit was exceeded, and what the hourly OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.

Emissions Unit ID: P047

3. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from both the laminate product and from all cleanup material employed) from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:

- 1.a. **Emission Limitation:** 1.0 lb of OC emissions/hr, for the laminate press (fugitive emissions)

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- 1.b. **Emission Limitation:** 4.38 tons of OC emissions/yr, for the laminate press (fugitive emissions)

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the hourly OC emission limitation by 8,760 hrs/yr, and dividing by 2,000 lbs/ton.

Compliance with the annual OC emission limitation is assumed while compliance is maintained with the hourly OC emission limitation.

- 1.c. **Emission Limitation:** 0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined (fugitive emissions)

Applicable compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2485 issued 07/29/1992.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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P047 - laminate press with
automated resin spreader.
Company ID is Laminate
Press Number 10

2. Additional Terms and Conditions

2.a Air Toxic Policy Clarifying Language

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

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Facility ID: 1318544510

Emissions Unit ID: P047

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
P049 - laminate press with manual resin spreader. Company ID is laminate press number 12	OAC rule 3745-31-05(A)(3)	1.0 lb of organic compound (OC) emissions/hr from the laminate press (fugitive emissions)
		4.38 tons of OC emissions/yr, from the laminate press (fugitive emissions)
		0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined.
		The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

OAC rule 3745-21-07(G)(2)

The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

40 CFR Part 63, Subpart WWWW

The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a** The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
 - a. the company identification of each liquid resin mix received for processing;
 - b. company identification of the OC emission factor (EF) for each liquid resin mix processed;
 - c. company identification of the styrene emission factor (SEF) for each liquid resin mix processed;
 - d. the total hours of operation;

- e. the total OC emissions from all liquid resin mixes employed, in lbs [summation of ((EF, in lbs of OC emissions/hr) x (d)) for each liquid resin mix];
 - f. the total styrene emissions from all liquid resin mixes employed, in lbs [summation of ((SEF, in lbs of styrene emissions/hr) x (d)) for each resin mix];
 - g. the average hourly OC emission rate, in lbs (e/d) ; and
 - h. the average hourly styrene emission rate, in lbs (f/d).
2. The permittee shall maintain monthly records of the following information for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined:
 - a. the volume of each cleanup material dispensed, in gallons;
 - b. the volume of each cleanup material returned, in gallons;
 - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
 - d. the OC content of each cleanup material employed, in lbs/gallon; and
 - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed).
 3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly OC emission limitation for this emissions unit was exceeded, and what the hourly OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.

Emissions Unit ID: P049

3. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from both the laminate product and from all cleanup material employed) from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:

- 1.a. **Emission Limitation:** 1.0 lb of OC emissions/hr, for the laminate press (fugitive emissions)

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- 1.b. **Emission Limitation:** 4.38 tons of OC emissions/yr, for the laminate press (fugitive emissions)

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the hourly OC emission limitation by 8,760 hrs/yr, and dividing by 2,000 lbs/ton.

Compliance with the annual OC emission limitation is assumed while compliance is maintained with the hourly OC emission limitation.

- 1.c. **Emission Limitation:** 0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined.

Applicable compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2485 issued 07/29/1992.

B. State Only Enforceable Section**I. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property,
and/or Equipment

Applicable Rules/Requirements

Applicable Emissions
Limitations/Control Measures

P049 - laminate press with
manual resin spreader.
Company ID is Laminate
Press Number 12

2. Additional Terms and Conditions**2.a Air Toxic Policy Clarifying Language**

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

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PTI A

Issued: 11/16/2004

Emissions Unit ID: P049

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
P050 - laminate press with manual resin spreader. Company ID is laminate press number 15	OAC rule 3745-31-05(A)(3)	<p>1.00 lb of organic compound (OC) emissions/hr, from the laminate press (fugitive emissions)</p> <p>4.38 tons of OC emissions/yr, from the laminate press (fugitive emissions)</p> <p>0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined (fugitive emissions)</p> <p>The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.</p>

Emissions Unit ID: P050

OAC rule 3745-21-07(G)(2)

The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

40 CFR Part 63, Subpart WWWW

The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a** The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
 - a. the company identification of each liquid resin mix received for processing;
 - b. company identification of the OC emission factor (EF) for each liquid resin mix processed;
 - c. company identification of the styrene emission factor (SEF) for each liquid resin mix processed;
 - d. the total hours of operation;
 - e. the total OC emissions from all liquid resin mixes employed, in lbs [summation of ((EF, in lbs of OC emissions/hr) x (d)) for each liquid resin mix];
 - f. the total styrene emissions from all liquid resin mixes employed, in lbs [summation of ((SEF, in lbs of styrene emissions/hr) x (d)) for each resin mix];

- g. the average hourly OC emission rate, in lbs (e/d) ; and
 - h. the average hourly styrene emission rate, in lbs (f/d).
2. The permittee shall maintain monthly records of the following information for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined:
- a. the volume of each cleanup material dispensed, in gallons;
 - b. the volume of each cleanup material returned, in gallons;
 - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
 - d. the OC content of each cleanup material employed, in lbs/gallon; and
 - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed).
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].

IV. Reporting Requirements

- 1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly OC emission limitation for this emissions unit was exceeded, and what the hourly OC emissions were for each such day.
- 2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
- 3. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from both the laminate product and from all cleanup material employed) from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:

1.a **Emission Limitation:** 1.00 lb of OC emissions/hr, for the laminate press (fugitive emissions)

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

1.b **Emission Limitation:** 4.38 tons of OC emissions/yr, for the laminate press (fugitive emissions)

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the hourly OC emission limitation by 8,760 hrs/yr, and dividing by 2,000 lbs/ton.

Compliance with the annual OC emission limitation is assumed while compliance is maintained with the hourly OC emission limitation.

1.c **Emission Limitation:** 0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined (fugitive emissions)

Applicable compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2485 issued 07/29/1992.

B. State Only Enforceable Section**I. Applicable Emissions Limitations and/or Control Requirements**

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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P050 - laminate press with
manual resin spreader.
Company ID is Laminate
Press Number 15

2. Additional Terms and Conditions**2.a Air Toxic Policy Clarifying Language**

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

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PTI A

Issued: 11/16/2004

Emissions Unit ID: P050

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
P051 - laminate press with manual resin spreader. Company ID is laminate press number 16	OAC rule 3745-31-05(A)(3)	<p>1.5 lb of organic compound (OC) emissions/hr from the laminate press (fugitive emissions)</p> <p>6.57 tons of OC emissions/yr, from the laminate press (fugitive emissions)</p> <p>0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined (fugitive emissions).</p> <p>The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.</p>

OAC rule 3745-21-07(G)(2)

The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

40 CFR Part 63, Subpart WWWW

The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a** The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
 - a. the company identification of each liquid resin mix received for processing;
 - b. company identification of the OC emission factor (EF) for each liquid resin mix processed;
 - c. company identification of the styrene emission factor (SEF) for each liquid resin mix processed;
 - d. the total hours of operation;

- e. the total OC emissions from all liquid resin mixes employed, in lbs [summation of ((EF, in lbs of OC emissions/hr) x (d)) for each liquid resin mix];
 - f. the total styrene emissions from all liquid resin mixes employed, in lbs [summation of ((SEF, in lbs of styrene emissions/hr) x (d)) for each resin mix];
 - g. the average hourly OC emission rate, in lbs (e/d) ; and
 - h. the average hourly styrene emission rate, in lbs (f/d).
2. The permittee shall maintain monthly records of the following information for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined:
 - a. the volume of each cleanup material dispensed, in gallons;
 - b. the volume of each cleanup material returned, in gallons;
 - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
 - d. the OC content of each cleanup material employed, in lbs/gallon; and
 - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed).
 3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly OC emission limitation for this emissions unit was exceeded, and what the hourly OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from both the laminate product and from all cleanup material employed) from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:

- 1.a **Emission Limitation:** 1.5 lb of OC emissions/hr, for the laminate press (fugitive emissions)

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- 1.b **Emission Limitation:** 6.57 tons of OC emissions/yr, for the laminate press (fugitive emissions)

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the hourly OC emission limitation by 8,760 hrs/yr, and dividing by 2,000 lbs/ton.

Compliance with the annual OC emission limitation is assumed while compliance is maintained with the hourly OC emission limitation.

- 1.c **Emission Limitation:** 0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined (fugitive emissions).

Applicable compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2485 issued 07/29/1992.

B. State Only Enforceable Section**I. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property,
and/or Equipment

Applicable Rules/Requirements

Applicable Emissions
Limitations/Control Measures

P051 - laminate press with
manual resin spreader.
Company ID is Laminate
Press Number 16

2. Additional Terms and Conditions**2.a Air Toxic Policy Clarifying Language**

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
P052 - laminate press with manual resin spreader. Company ID is laminate press number 17	OAC rule 3745-31-05(A)(3)	<p>1.0 lb of organic compound (OC) emissions/hr from the laminate press (fugitive emissions)</p> <p>4.38 tons of OC emissions/yr, from the laminate press (fugitive emissions)</p> <p>0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined (fugitive emissions).</p> <p>The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.</p>

OAC rule 3745-21-07(G)(2)

The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

40 CFR Part 63, Subpart WWWW

The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a** The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
 - a. the company identification of each liquid resin mix received for processing;
 - b. company identification of the OC emission factor (EF) for each liquid resin mix processed;
 - c. company identification of the styrene emission factor (SEF) for each liquid resin mix processed;
 - d. the total hours of operation;

- e. the total OC emissions from all liquid resin mixes employed, in lbs [summation of ((EF, in lbs of OC emissions/hr) x (d)) for each liquid resin mix];
 - f. the total styrene emissions from all liquid resin mixes employed, in lbs [summation of ((SEF, in lbs of styrene emissions/hr) x (d)) for each resin mix];
 - g. the average hourly OC emission rate, in lbs (e/d) ; and
 - h. the average hourly styrene emission rate, in lbs (f/d).
2. The permittee shall maintain monthly records of the following information for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined:
 - a. the volume of each cleanup material dispensed, in gallons;
 - b. the volume of each cleanup material returned, in gallons;
 - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
 - d. the OC content of each cleanup material employed, in lbs/gallon; and
 - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
 3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly OC emission limitation for this emissions unit was exceeded, and what the hourly OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from both the laminate product and from all cleanup material employed) from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:

- 1.a. **Emission Limitation:** 1.0 lb of OC emissions/hr, for the laminate press (fugitive emissions)

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- 1.b. **Emission Limitation:** 4.38 tons of OC emissions/yr, for the laminate press (fugitive emissions)

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the hourly OC emission limitation by 8,760 hrs/yr, and dividing by 2,000 lbs/ton.

Compliance with the annual OC emission limitation is assumed while compliance is maintained with the hourly OC emission limitation.

- 1.c. **Emission Limitation:** 0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined (fugitive emissions).

Applicable compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2485 issued 07/29/1992.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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P052 - laminate press with
manual resin spreader.
Company ID is Laminate
Press Number 17

2. Additional Terms and Conditions

2.a Air Toxic Policy Clarifying Language

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
P053 - laminate press with manual resin spreader. Company ID is laminate press number 18	OAC rule 3745-31-05(A)(3)	1.00 lb of organic compound (OC) emissions/hr from the laminate press (fugitive emissions)
		4.38 tons of OC emissions/yr, from the laminate press (fugitive emissions)
		0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined (fugitive emissions).
		The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.
	OAC rule 3745-21-07(G)(2)	The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

40 CFR Part 63, Subpart WWWW The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
 - a. the company identification of each liquid resin mix received for processing;
 - b. company identification of the OC emission factor (EF) for each liquid resin mix processed;
 - c. company identification of the styrene emission factor (SEF) for each liquid resin mix processed;
 - d. the total hours of operation;
 - e. the total OC emissions from all liquid resin mixes employed, in lbs [summation of ((EF, in lbs of OC emissions/hr) x (d)) for each liquid resin mix];
 - f. the total styrene emissions from all liquid resin mixes employed, in lbs [summation of ((SEF, in lbs of styrene emissions/hr) x (d)) for each resin mix];

- g. the average hourly OC emission rate, in lbs (e/d) ; and
 - h. the average hourly styrene emission rate, in lbs (f/d).
2. The permittee shall maintain monthly records of the following information for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined:
- a. the volume of each cleanup material dispensed, in gallons;
 - b. the volume of each cleanup material returned, in gallons;
 - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
 - d. the OC content of each cleanup material employed, in lbs/gallon; and
 - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed).
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].

IV. Reporting Requirements

- 1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly OC emission limitation for this emissions unit was exceeded, and what the hourly OC emissions were for each such day.
- 2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
- 3. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from both the laminate product and from all cleanup material employed) from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:

- 1.a **Emission Limitation:** 1.00 lb of OC emissions/hr, for the laminate press (fugitive emissions)

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- 1.b **Emission Limitation:** 4.38 tons of OC emissions/yr, for the laminate press (fugitive emissions)

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the hourly OC emission limitation by 8,760 hrs/yr, and dividing by 2,000 lbs/ton.

Compliance with the annual OC emission limitation is assumed while compliance is maintained with the hourly OC emission limitation.

- 1.c **Emission Limitation:** 0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined (fugitive emissions).

Applicable compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2485 issued 07/29/1992.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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P053 - laminate press with
manual resin spreader.
Company ID is Laminate
Press Number 18

2. Additional Terms and Conditions

2.a Air Toxic Policy Clarifying Language

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

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Glastic Corporation Cleveland Facility
PTI Application: 13-03893
Issued

Facility ID: 1318544510

Emissions Unit ID: P053

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
P059 - laminate press with manual resin spreader. Company ID is laminate press number 48	OAC rule 3745-31-05(A)(3)	<p>2.00 lbs of organic compound (OC) emissions/hr from the laminate press (fugitive emissions)</p> <p>40 lbs of OC emissions/day, from the laminate press (fugitive emissions)</p> <p>7.30 tons of OC emissions/yr, from the laminate press (fugitive emissions)</p> <p>0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined (fugitive emissions).</p>

The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

OAC rule 3745-21-07(G)(2)

The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

40 CFR Part 63, Subpart WWWW

The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a** The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
 - a. the company identification of each liquid resin mix received for processing;
 - b. company identification of the OC emission factor (EF) for each liquid resin mix processed;

- c. company identification of the styrene emission factor (SEF) for each liquid resin mix processed;
 - d. the total hours of operation;
 - e. the total OC emissions from all liquid resin mixes employed, in lbs [summation of ((EF, in lbs of OC emissions/hr) x (d)) for each liquid resin mix];
 - f. the total styrene emissions from all liquid resin mixes employed, in lbs [summation of ((SEF, in lbs of styrene emissions/hr) x (d)) for each resin mix];
 - g. the average hourly OC emission rate, in lbs (e/d) ; and
 - h. the average hourly styrene emission rate, in lbs (f/d).
2. The permittee shall maintain monthly records of the following information for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined:
 - a. the volume of each cleanup material dispensed, in gallons;
 - b. the volume of each cleanup material returned, in gallons;
 - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
 - d. the OC content of each cleanup material employed, in lbs/gallon; and
 - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed).
 3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were

Emissions Unit ID: P059

exceeded, and what the hourly and daily OC emissions were for each such day.

2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from both the laminate product and from all cleanup material employed) from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
 - 1.a **Emission Limitation:** 2.0 lbs of OC emissions/hr, for the laminate press (fugitive emissions)

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
 - 1.b **Emission Limitation:** 40 lbs of OC emissions/day, from the laminate press (fugitive emissions)

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified by in Section A.III.1.
 - 1.c **Emission Limitation:** 7.3 tons of OC emissions/yr, for the laminate press (fugitive emissions)

Applicable Compliance Method:

The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore compliance with the annual OC emission limitation is ensured while compliance is maintained with the daily OC emission limitation.
 - 1.d **Emission Limitation:** 0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined (fugitive emissions).

Applicable compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

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Glasti

PTI A

Issued: 11/16/2004

Emissions Unit ID: P059

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2485 issued 07/29/1992.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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P059 - laminate press with
automated resin spreader.
Company ID is Laminate
Press Number 48

2. Additional Terms and Conditions

2.a Air Toxic Policy Clarifying Language

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

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Glasti

PTI A

Issued: 11/16/2004

Emissions Unit ID: P059

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
P060 - laminate press with manual resin spreader. Company ID is laminate press number 49	OAC rule 3745-31-05(A)(3)	<p>2.75 lbs of organic compound (OC) emissions/hr from the laminate press (fugitive emissions)</p> <p>40 lbs of OC emissions/day, from the laminate press (fugitive emissions)</p> <p>7.3 tons of OC emissions/yr, from the laminate press (fugitive emissions)</p> <p>0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined (fugitive emissions).</p>

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Issued

Facility ID: 1318544510

Emissions Unit ID: P060

The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

OAC rule 3745-21-07(G)(2)

The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

40 CFR Part 63, Subpart WWWW

The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

- 2.a** The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
 - a. the company identification of each liquid resin mix received for processing;
 - b. company identification of the OC emission factor (EF) for each liquid resin mix processed;
 - c. company identification of the styrene emission factor (SEF) for each liquid resin mix processed;
 - d. the total hours of operation;

- e. the total OC emissions from all liquid resin mixes employed, in lbs [summation of ((EF, in lbs of OC emissions/hr) x (d)) for each liquid resin mix];
 - f. the total styrene emissions from all liquid resin mixes employed, in lbs [summation of ((SEF, in lbs of styrene emissions/hr) x (d)) for each resin mix];
 - g. the average hourly OC emission rate, in lbs (e/d) ; and
 - h. the average hourly styrene emission rate, in lbs (f/d).
2. The permittee shall maintain monthly records of the following information for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined:
 - a. the volume of each cleanup material dispensed, in gallons;
 - b. the volume of each cleanup material returned, in gallons;
 - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
 - d. the OC content of each cleanup material employed, in lbs/gallon; and
 - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed).
 3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the

total OC emissions (i.e., from both the laminate product and from all cleanup material employed) from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:

- 1.a **Emission Limitation:** 2.75 lbs of OC emissions/hr, for the laminate press (fugitive emissions)

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- 1.b **Emission Limitation:** 40 lbs of OC emissions/day, from the laminate press (fugitive emissions)

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified by in Section A.III.1.

- 1.c **Emission Limitation:** 7.3 tons of OC emissions/yr, for the laminate press (fugitive emissions)

Applicable Compliance Method:

The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore compliance with the annual OC emission limitation is ensured while compliance is maintained with the daily OC emission limitation.

- 1.d **Emission Limitation:** 0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined (fugitive emissions).

Applicable compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

Glastic Corporation Cleveland Facility
PTI Application: 13-03893
Issued

Facility ID: 1318544510

Emissions Unit ID: P060

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2485 issued 07/29/1992.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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P060 - laminate press with
automated resin spreader.
Company ID is Laminate
Press Number 49

2. Additional Terms and Conditions

2.a Air Toxic Policy Clarifying Language

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

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VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/requirements	Applicable Emissions Limitations/Control Measures
P063 - cold room tote filling station	OAC rule 3745-31-05(A)(3)	1.0 lb of organic compound (OC) emissions/hr (fugitive emissions)
		4.38 tons of OC emissions/yr (fugitive emissions)
		The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.
	OAC rule 3745-21-07(G)(2)	The hourly OC emission limitation specified by this rule is less stringent than the hourly OC emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

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40 CFR Part 63, Subpart WWWW The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Part II.A. above.

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
 - a. the types of liquid resin mixes employed in the tote filling;
 - b. the OC content of each liquid resin mix, in lbs of OC emissions/tote filled*;
 - c. the total number of totes filled;
 - d. the total number of hours this emissions unit was in operation;
 - e. the total OC emissions, in lbs [summation of (b) x (c) for each tote filled]; and
 - f. the average hourly OC emission rate, in lbs [e/d].

* An initial OC emission factor of 0.21 lb of OC emissions/tote filled was established by the permittee. Should a more accurate emission factor be developed in the future, the permittee shall use it provided the emission factor is mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly OC emission limitation for this emissions unit was exceeded, and what the hourly OC emissions were for each such day.

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2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions, in tons, from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

V. Testing Requirements

1. Compliance with the emission limitations specified in Section A.I.1 shall be determined in accordance with the following methods:

- 1.a **Emission Limitation:** 1.0 lb of OC emissions/hr

Applicable Compliance Method: The OC emission limitation was established by the following methodology:

hourly OC emissions = (0.21 lb of OC emissions/tote filled*) x (totes filled/day) x (1day/hours of operation)

*The OC emission factor was established by the permittee. Should a more accurate emission factor be developed in the future, the permittee shall use it provided the emission factor is mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- 1.b **Emission Limitation:** 4.38 tons/yr of OC emissions (including cleanup material).

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the hourly OC emission limitation by 8,760 hrs/year, and dividing by 2,000 pounds/ton. Therefore, compliance with the annual OC emission limitation is assumed while compliance with the hourly OC emissions limitation is maintained.

VI. Miscellaneous Requirements

1. The terms in this permit supercede those identified in PTI 13-2561 issued 9/9/1993.

B. State Only Enforceable Section**I. Applicable Emissions Limitations and/or Control Requirements**

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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P063 - cold room tote filling
station

2. Additional Terms and Conditions**2.a Air Toxic Policy Clarifying Language**

See Part II.B.I.1 above.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

IV. Testing Requirements

None

VI. Miscellaneous Requirements

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None