



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center
122 S. Front Street
Columbus, OH 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

09/29/00

CERTIFIED MAIL

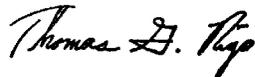
RE: Proposed Title V Chapter 3745-77 permit
02-04-03-0269
PICKEN'S PLASTIC INC.

Attn: Genevieve Damico AR-18J
United States Environmental Protection Agency
Region V
77 West Jackson Blvd.
Chicago, IL 60604-3590

Dear Ms. Damico:

The proposed issuance of the Title V permit for PICKEN'S PLASTIC INC., has been created in Ohio EPA's State Air Resources System (STARS) on 09/29/00, for review by USEPA. This proposed action is identified in STARS as  3-Title V Proposed Permit T+C covering the facility specific terms and conditions, and  Title V Proposed Permit covering the general terms and conditions. This proposed permit will be processed for issuance as a final action after forty-five (45) days from USEPA's receipt of this certified letter if USEPA does not object to the proposed permit. Please contact Mike Ahern, DAPC Permit Management Unit supervisor at (614) 644-3631 by the end of the forty-five (45) day review period if you wish to object to the proposed permit.

Very truly yours,



Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

cc: Northeast District Office
Becky Castle, DAPC PMU



Ohio EPA

State of Ohio Environmental Protection Agency

TITLE V PERMIT

Date: 09/29/00

PROPOSED

Effective Date:

Expiration Date:

This document constitutes issuance to:

PICKEN'S PLASTIC INC.
2110 East Aurora Road
Twinsburg, OH 44087

of a Title V permit for Facility ID: 02-04-03-0269

Emissions Unit ID (Company ID)/

Emissions Unit Activity Description:

R001 (CHOP BOOTH 1 B5-A)

SPRAY UP BOOTH MIXTURE OF POLYESTER RESIN IS COMBINED WITH GLASS FIBERS

R003 (PAINT BOOTH B7)

PAINT SPRAY USED TO COAT FIBERGLASS REINFORCED PRODUCTS

R004 (CHOP BOOTH 2)

SPRAY UP BOOTH MIXTURE OF POLYESTER RESIN IS COMBINED WITH GLASS FIBERS

R005 (CHOP BOOTH 3)

SPRAY UP BOOTH MIXTURE OF POLYESTER RESIN IS COMBINED WITH GLASS FIBERS

R006 (CHOP BOOTH 4)

SPRAY UP BOOTH MIXTURE OF POLYESTER RESIN IS COMBINED WITH GLASS FIBERS

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-04(A) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Described below is the current Ohio EPA District Office or local air agency that is responsible for processing and administering your Title V permit:

Northeast District Office
(330) 425-9171

OHIO ENVIRONMENTAL PROTECTION AGENCY

Christopher Jones
Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

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 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 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 promptly made to the appropriate Ohio EPA District Office or local air agency. These quarterly written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations except malfunctions, which shall be reported in accordance with OAC rule 3745-15-06. 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. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.) See B.8 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. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of any deviations related to the monitoring, recordkeeping, and reporting

requirements. 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 submitted pursuant to OAC rule 3745-15-06 shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of deviations caused by malfunctions or upsets.

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.

8. Marketable Permit Programs

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

9. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these general terms and conditions shall apply to all operating scenarios authorized in this permit.

10. Reopening for Cause

This Title V permit will be reopened prior to its expiration date under the following conditions:

- a. Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.
- b. This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.

- c. The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.
- d. The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

11. 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.

12. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V 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 paragraph (E) of OAC rule 3745-77-03.
 - 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.
- d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to

the appropriate Ohio EPA District Office or local air agency in the following manner and with the following content:

- i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.
- ii. Compliance certifications shall include the following:
 - (a) An identification of each term or condition of this permit that is the basis of the certification.
 - (b) The permittee's current compliance status.
 - (c) Whether compliance was continuous or intermittent.
 - (d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.
 - (e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
- iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

13. Permit Shield

- a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.
- b. This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

14. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

15. Emergencies

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

16. Off Permit Changes

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

- a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition;
- b. The permittee provides contemporaneous written notice of the change to the director and the administrator, except that no such notice shall be required for changes that qualify as insignificant emission levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change;
- c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F);
- d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes; and
- e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit to install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(For further clarification, the permittee can refer to Engineering Guide #63 that is available in their STARSHIP software package.)

17. Compliance Method Requirements

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.

B. State Only Enforceable Section

1. Permit to Install Requirement

Prior to the “installation” or “modification” of any “air contaminant source,” as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping 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 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. Records Retention Requirements

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.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. 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 verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction 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. 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 emissions unit(s) that is (are) served by such control system(s).

6. 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.

7. 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.

8. 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.

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforcable Section

None

B. State Only Enforceable Section

1. The following insignificant emissions units are located at this facility:

P002 - Trim booth B9

P003 - Trim booth B10

Z004 - Curing oven for painted parts

Z005 - Curing oven for painted FRP parts

Z006 - Makeup air heater

Z007 - 7 compression mold presses for thermoset plastic parts

Each insignificant emissions unit at this facility must comply with all State and federal regulations, as well as any emissions limitations and/or control requirements contained within a Permit to Install for the emissions unit.

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: CHOP BOOTH 1 B5-A (R001)

Activity Description: SPRAY UP BOOTH MIXTURE OF POLYESTER RESIN IS COMBINED WITH GLASS FIBERS

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Spray lay-up molding of polyester resin mixes and gelcoat mixes to make fiberglass reinforced plastic parts, booth B5-A	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day, including photochemically reactive cleanup materials. See sections A.I.2.a. and A.I.2.b.
	OAC rule 3745-31-05(A)(3) PTI 02-2077	OC emissions shall not exceed 7.3 tons/year, including all cleanup materials.

2. Additional Terms and Conditions

- 2.a On any day when photochemically reactive materials are employed, all of the organic compound emissions from this emissions unit count toward the hourly and daily limits, including the emissions from nonphotochemically reactive materials, except nonphotochemically reactive cleanup materials.
- 2.b The emissions of organic material from the spray lay-up operation consist of styrene, a photochemically reactive material.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each lay-up material (i.e., polyester resin mix or gelcoat mix) and each cleanup material employed.
 - b. An identification of whether or not each cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01(C).
 - c. An identification of whether vapor suppressed or non-vapor suppressed polyester resin mix was employed.
 - d. An identification of the type of mechanical resin application (i.e., uncontrolled atomized spray or non-atomized application) employed.
 - e. The number of pounds of each lay-up material employed.
 - f. The styrene content of each lay-up material, in percent by weight.
 - g. The number of gallons of each photochemically reactive cleanup material employed.
 - h. The OC content of each photochemically reactive cleanup material, in pounds per gallon.
 - i. The total OC emission rate for all lay-up materials and photochemically reactive cleanup materials, in pounds per day.
 - j. The actual number of hours the emissions unit was in operation.
 - k. The average hourly OC emission rate for all lay-up materials and photochemically reactive cleanup materials, i.e., (i)/(j), in pounds per hour (average).
2. The permittee shall collect and record the following information for each year for the purpose of determining annual OC emissions:
 - a. The volume of each nonphotochemically reactive cleanup material employed, in gallons per year.
 - b. The OC content of each nonphotochemically reactive cleanup material, in pounds per gallon.
 - c. The total OC emission rate for all nonphotochemically reactive cleanup materials, in pounds.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly OC emissions from the lay-up materials and photochemically reactive cleanup materials exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the OC emissions from the lay-up materials and photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the allowable emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

- 1.a** Emission Limitation: 8 lbs OC/hr, including photochemically reactive cleanup materials.

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the recordkeeping requirements specified in section A.III.1.k. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests, performed in accordance with 40 CFR Part 60, Appendix A, Method 18, 25 or 25A, as appropriate.

- 1.b** Emission Limitation: 40 lbs OC/day, including photochemically reactive cleanup materials.

Applicable Compliance Method:

- i. To calculate emissions from the lay-up operations, the permittee shall employ the following formula:

$$E(\text{lay-up}) = \text{summation of } (W_i \times EFi).$$

Where:

$E(\text{lay-up})$ = the daily organic compound emissions from all lay-up materials, in pounds per day.

i = subscript denoting a specific lay-up material employed.

W_i = the weight of lay-up material "i" employed, in pounds per day.

EF_i = the emission factor for styrene emissions for lay-up material "i", based on the styrene content and mechanical application type, as noted in Table 2.16 of CFA Emission Models for the Reinforced Plastics Industries, Feb. 1998 or any later revisions. If an emission factor is not available in Table 2.16 for the styrene content of the lay-up material (e.g., non-atomized application of polyester resin lay-up material with less than 42% styrene content by weight), the permittee may propose an emission factor subject to Ohio EPA approval or use the most representative emission factor in Table 2.16 as long as it is for a higher styrene content lay-up material.

- ii. To calculate emissions from the photochemically reactive cleanup materials, the permittee shall employ the following formula:

$$E(\text{pcr_cleanup}) = \text{summation of } (V_i \times OC_i).$$

Where:

$E(\text{pcr_cleanup})$ = the daily organic compound emissions from all photochemically reactive cleanup materials, in pounds per day.

i = subscript denoting a specific photochemically reactive cleanup material employed.

V_i = the volume of photochemically reactive cleanup material "i" employed, in gallons per day.

OC_i = the OC content of photochemically reactive cleanup material "i", in pounds per gallon.

- iii. To calculate emissions from all photochemically reactive materials, the permittee shall employ the following formula:

$$E(\text{pcr}) = E(\text{lay-up}) + E(\text{pcr_cleanup}).$$

V. Testing Requirements (continued)

1.c Emission Limitation: 7.3 TPY OC, including all cleanup materials.

Applicable Compliance Method:

i. To calculate emissions from the nonphotochemically reactive cleanup materials, the permittee shall employ the following formula(s):

$$E(\text{npcr_cleanup}) = \text{summation of } (V_i \times OC_i).$$

Where:

$E(\text{npcr_cleanup})$ = the annual OC emissions from all nonphotochemically reactive cleanup materials, in pounds per year.

i = subscript denoting a specific nonphotochemically reactive cleanup material employed.

V_i = the volume of nonphotochemically reactive cleanup material "i" employed, in gallons per year.

OC_i = the OC content of nonphotochemically reactive cleanup material "i", in pounds per gallon.

ii. To determine annual OC emissions from all materials, compliance shall be based on the sum of the daily OC emission rates from lay-up materials and photochemically reactive cleanup materials, $E(\text{pcr})$, as specified in section A.V.1.b. of this permit for the calendar year, and the OC emission rate from nonphotochemically reactive cleanup materials, $E(\text{npcr_cleanup})$, for the calendar year, divided by 2000 k pounds/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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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2. Additional Terms and Conditions

None

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 - Terms and Conditions for Emissions Units

Emissions Unit ID: PAINT BOOTH B7 (R003)

Activity Description: PAINT SPRAY USED TO COAT FIBERGLASS REINFORCED PRODUCTS

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Paint spray booth for fiberglass reinforced plastic parts	OAC rule 3745-17-07(A)	Visible particulate emissions from this emissions unit shall not exceed 20% opacity as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(1)	Particulate emissions (PE) shall not exceed 0.551 lb/hr.
	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day, including photochemically reactive cleanup materials. See section A.I.2.a.
	OAC rule 3745-31-05(A)(3) PTI 02-2619	OC emissions shall not exceed 7.3 tons/year, including all cleanup materials.

2. Additional Terms and Conditions

- 2.a On any day when photochemically reactive materials are employed, all of the organic compound emissions from this emissions unit count toward the hourly and daily limits, including the emissions from nonphotochemically reactive materials, except nonphotochemically reactive cleanup materials.

II. Operational Restrictions

1. The permittee shall operate the overspray filter system whenever this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain a weekly log of filter replacements and any maintenance of the overspray filter system.
2. The permittee shall properly operate the overspray filter system and check it at least once per day when the emissions unit is in operation. The permittee shall record each day all periods of time during which the overspray filter system was not in operation when the emissions unit was in operation.

III. Monitoring and/or Record Keeping Requirements (continued)

3. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each coating and each cleanup material employed.
 - b. Identification of whether or not each coating and each cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01(C).
 - c. The volume of each coating employed, in gallons per day.
 - d. The OC content of each coating and each photochemically reactive cleanup material employed, in pounds per gallon.
 - e. The volume of each photochemically reactive cleanup material dispensed, in gallons per day.
 - f. The volume of each photochemically reactive cleanup material returned, in gallons per day.
 - g. The volume of each evaporated photochemically reactive cleanup material, which is estimated by subtracting the volume of returned cleanup material from the volume of dispensed cleanup material, in gallons per day.
 - h. The total OC emission rate for all coatings and photochemically reactive cleanup materials, in pounds per day.
 - i. The total number of hours the emissions unit was in operation.
 - j. The average hourly OC emission rate for all coatings and photochemically reactive cleanup materials, i.e., (h)/(i), in pounds per hour.
4. The permittee shall collect and record the following information for each year for the purpose of determining annual organic compound emissions:
 - a. The volume of each nonphotochemically reactive cleanup material dispensed, in gallons per year.
 - b. The volume of each nonphotochemically reactive cleanup material returned, in gallons per year.
 - c. The volume of each evaporated nonphotochemically reactive cleanup material, which is estimated by subtracting the volume of returned cleanup material from the volume of dispensed cleanup material, in gallons per year.
 - d. The OC content of each nonphotochemically reactive cleanup material, in pounds per gallon.
 - e. The total OC emission rate for all nonphotochemically reactive cleanup materials, in pounds.

IV. Reporting Requirements

1. The permittee shall notify the Northeast District Office in writing of any daily record showing that the overspray filter system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Northeast District Office within 30 days after the event occurs.

IV. Reporting Requirements (continued)

2. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day, whenever photochemically reactive materials (coatings or cleanup materials) are employed, during which the average hourly OC emissions from the coatings and photochemically reactive cleanup materials exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day, whenever photochemically reactive materials (coatings or cleanup materials) are employed, during which the OC emissions from the coatings and photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual OC emissions for each such day.
3. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the allowable emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation: 20% opacity of visible particulate emissions, as a 6-minute average.

Applicable Compliance Method: Compliance shall be determined based upon OAC rule 3745-17-03(B)(1), if required by Ohio EPA.
 - 1.b Emission Limitation: 0.551 lb PE/hr

Applicable Compliance Method: To determine the actual worst case rate for PE, the following equation shall be used:

$$E = CTG \times SC \times (1-TE) \times (1-CE).$$

Where the following applies:
E = PE rate, lbs/hr.

CTG = maximum coating usage rate, which is 0.88 gal/hr as noted in the permit application.

SC = maximum solids content, which is 2.77 lbs/gal of coating as determined from data in the permit application.

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used.

CE = control efficiency of the control equipment.
 - 1.c Emission Limitation: 8 lbs OC/hr, including photochemically reactive cleanup materials.

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the recordkeeping requirements specified in section A.III.3.j. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests, performed in accordance with 40 CFR Part 60, Appendix A, Method 18, 25 or 25A, as appropriate.

V. Testing Requirements (continued)

1.d Emission Limitation: 40 lbs OC/day, including photochemically reactive cleanup materials.

Applicable Compliance Method:

i. To calculate emissions from the coatings, the permittee shall employ the following formula:

$$E(\text{coating}) = \text{summation of } (V_i \times OC_i).$$

Where:

$E(\text{coating})$ = the organic compound emissions from all coatings, in pounds per day.

i = subscript denoting a specific coating employed.

V_i = the volume of coating "i" employed, in gallons per day.

OC_i = the OC content of coating "i", in pounds per gallon.

ii. To calculate emissions from the photochemically reactive cleanup materials, the permittee shall employ the following formula:

$$E(\text{pcr_cleanup}) = \text{summation of } (V_i \times OC_i).$$

Where:

$E(\text{pcr_cleanup})$ = the daily OC emissions from all photochemically reactive cleanup materials, in pounds per day.

i = subscript denoting a specific photochemically reactive cleanup material employed.

V_i = the volume of evaporated photochemically reactive cleanup material "i" employed, as specified in section A.III.3.g., in gallons per day.

OC_i = the OC content of photochemically reactive cleanup material "i", in pounds per gallon.

iii. To calculate emissions from coatings and photochemically reactive cleanup materials, the permittee shall employ the following formula:

$$E(\text{coating} + \text{pcr_cleanup}) = E(\text{coating}) + E(\text{pcr_cleanup}).$$

V. Testing Requirements (continued)

- 1.e** Emission Limitation: 7.3 TPY OC, including all cleanup materials.

Applicable Compliance Method:

i. To calculate emissions from the nonphotochemically reactive cleanup materials, the permittee shall employ the following formula:

$$E(\text{npcr_cleanup}) = \text{summation of } (V_i \times OC_i).$$

Where:

$E(\text{npcr_cleanup})$ = the annual OC emissions from all nonphotochemically reactive cleanup materials, in pounds per year.

i = subscript denoting a specific nonphotochemically reactive cleanup material employed.

V_i = the volume of evaporated nonphotochemically reactive cleanup material "i" employed, as specified in section A.III.4.c., in gallons per year.

OC_i = the OC content of nonphotochemically reactive cleanup material "i", in pounds per gallon.

ii. To determine annual OC emissions from all materials, compliance shall be based on the sum of the daily OC emission rates from coatings and photochemically reactive cleanup materials, $E(\text{coating} + \text{pcr_cleanup})$, as specified in section A.V.1.d. of this permit for the calendar year, and the OC emission rate from nonphotochemically reactive cleanup materials, $E(\text{npcr_cleanup})$, for the calendar year, divided by 2000 pounds/ton.

- 2.** Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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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2. Additional Terms and Conditions

None

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 - Terms and Conditions for Emissions Units

Emissions Unit ID: CHOP BOOTH 2 (R004)

Activity Description: SPRAY UP BOOTH MIXTURE OF POLYESTER RESIN IS COMBINED WITH GLASS FIBERS

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Spray lay-up molding of polyester resin mixes and gelcoat mixes to make fiberglass reinforced plastic parts, booth B5-B	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day, including photochemically reactive cleanup materials. See sections A.I.2.a. and A.I.2.b.
	OAC rule 3745-31-05(A)(3) PTI 02-5045	OC emissions shall not exceed 7.3 tons/year, including all cleanup materials.

2. Additional Terms and Conditions

- 2.a On any day when photochemically reactive materials are employed, all of the organic compound emissions from this emissions unit count toward the hourly and daily limits, including the emissions from nonphotochemically reactive materials, except nonphotochemically reactive cleanup materials.
- 2.b The emissions of organic material from the spray lay-up operation consist of styrene, a photochemically reactive material.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each lay-up material (i.e., polyester resin mix or gelcoat mix) and each cleanup material employed.
 - b. An identification of whether or not each cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01(C).
 - c. An identification of whether vapor suppressed or non-vapor suppressed polyester resin mix was employed.
 - d. An identification of the type of mechanical resin application (i.e., uncontrolled atomized spray or non-atomized application) employed.
 - e. The number of pounds of each lay-up material employed.
 - f. The styrene content of each lay-up material, in percent by weight.
 - g. The number of gallons of each photochemically reactive cleanup material employed.
 - h. The OC content of each photochemically reactive cleanup material, in pounds per gallon.
 - i. The total OC emission rate for all lay-up materials and photochemically reactive cleanup materials, in pounds per day.
 - j. The actual number of hours the emissions unit was in operation.
 - k. The average hourly OC emission rate for all lay-up materials and photochemically reactive cleanup materials, i.e., (i)/(j), in pounds per hour (average).
2. The permittee shall collect and record the following information for each year for the purpose of determining annual OC emissions:
 - a. The volume of each nonphotochemically reactive cleanup material employed, in gallons per year.
 - b. The OC content of each nonphotochemically reactive cleanup material, in pounds per gallon.
 - c. The total OC emission rate for all nonphotochemically reactive cleanup materials, in pounds.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly OC emissions from the lay-up materials and photochemically reactive cleanup materials exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the OC emissions from the lay-up materials and photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the allowable emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation: 8 lbs OC/hr, including photochemically reactive cleanup materials.

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the recordkeeping requirements specified in section A.III.1.k. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests, performed in accordance with 40 CFR Part 60, Appendix A, Method 18, 25 or 25A, as appropriate.

1.b Emission Limitation: 40 lbs OC/day, including photochemically reactive cleanup materials.

Applicable Compliance Method:

i. To calculate emissions from the lay-up operations, the permittee shall employ the following formula:

$E(\text{lay-up}) = \text{summation of } (W_i \times EFi)$.

Where:

$E(\text{lay-up})$ = the daily organic compound emissions from all lay-up materials, in pounds per day.

i = subscript denoting a specific lay-up material employed.

W_i = the weight of lay-up material "i" employed, in pounds per day.

EF_i = the emission factor for styrene emissions for lay-up material "i", based on the styrene content and mechanical application type, as noted in Table 2.16 of CFA Emission Models for the Reinforced Plastics Industries, Feb. 1998 or any later revisions. If an emission factor is not available in Table 2.16 for the styrene content of the lay-up material (e.g., non-atomized application of polyester resin lay-up material with less than 42% styrene content by weight), the permittee may propose an emission factor subject to Ohio EPA approval or use the most representative emission factor in Table 2.16 as long as it is for a higher styrene content lay-up material.

ii. To calculate emissions from the photochemically reactive cleanup materials, the permittee shall employ the following formula:

$E(\text{pcr_cleanup}) = \text{summation of } (V_i \times OC_i)$.

Where:

$E(\text{pcr_cleanup})$ = the daily organic compound emissions from all photochemically reactive cleanup materials, in pounds per day.

i = subscript denoting a specific photochemically reactive cleanup material employed.

V_i = the volume of photochemically reactive cleanup material "i" employed, in gallons per day.

OC_i = the OC content of photochemically reactive cleanup material "i", in pounds per gallon.

iii. To calculate emissions from all photochemically reactive materials, the permittee shall employ the following formula:

$E(\text{pcr}) = E(\text{lay-up}) + E(\text{pcr_cleanup})$.

V. Testing Requirements (continued)

1.c Emission Limitation: 7.3 TPY OC, including all cleanup materials

Applicable Compliance Method:

i. To calculate emissions from the nonphotochemically reactive cleanup materials, the permittee shall employ the following formula(s):

$$E(\text{npcr_cleanup}) = \text{summation of } (V_i \times OC_i).$$

Where:

$E(\text{npcr_cleanup})$ = the annual OC emissions from all nonphotochemically reactive cleanup materials, in pounds per year.

i = subscript denoting a specific nonphotochemically reactive cleanup material employed.

V_i = the volume of nonphotochemically reactive cleanup material "i" employed, in gallons per year.

OC_i = the OC content of nonphotochemically reactive cleanup material "i", in pounds per gallon.

ii. To determine annual OC emissions from all materials, compliance shall be based on the sum of the daily OC emission rates from lay-up materials and photochemically reactive cleanup materials, $E(\text{pcr})$, as specified in section A.V.1.b. of this permit for the calendar year, and the OC emission rate from nonphotochemically reactive cleanup materials, $E(\text{npcr_cleanup})$, for the calendar year, divided by 2000 k pounds/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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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2. Additional Terms and Conditions

None

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 - Terms and Conditions for Emissions Units

Emissions Unit ID: CHOP BOOTH 3 (R005)

Activity Description: SPRAY UP BOOTH MIXTURE OF POLYESTER RESIN IS COMBINED WITH GLASS FIBERS

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Spray lay-up molding of polyester resin mixes and gelcoat mixes to make fiberglass reinforced plastic parts, booth B5-C	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day, including photochemically reactive cleanup materials. See sections A.I.2.a. and A.I.2.b.
	OAC rule 3745-31-05(A)(3) PTI 02-5045	OC emissions shall not exceed 7.3 tons/year, including all cleanup materials.

2. Additional Terms and Conditions

- 2.a On any day when photochemically reactive materials are employed, all of the organic compound emissions from this emissions unit count toward the hourly and daily limits, including the emissions from nonphotochemically reactive materials, except nonphotochemically reactive cleanup materials.
- 2.b The emissions of organic material from the spray lay-up operation consist of styrene, a photochemically reactive material.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each lay-up material (i.e., polyester resin mix or gelcoat mix) and each cleanup material employed.
 - b. An identification of whether or not each cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01(C).
 - c. An identification of whether vapor suppressed or non-vapor suppressed polyester resin mix was employed.
 - d. An identification of the type of mechanical resin application (i.e., uncontrolled atomized spray or non-atomized application) employed.
 - e. The number of pounds of each lay-up material employed.
 - f. The styrene content of each lay-up material, in percent by weight.
 - g. The number of gallons of each photochemically reactive cleanup material employed.
 - h. The OC content of each photochemically reactive cleanup material, in pounds per gallon.
 - i. The total OC emission rate for all lay-up materials and photochemically reactive cleanup materials, in pounds per day.
 - j. The actual number of hours the emissions unit was in operation.
 - k. The average hourly OC emission rate for all lay-up materials and photochemically reactive cleanup materials, i.e., (i)/(j), in pounds per hour (average).
2. The permittee shall collect and record the following information for each year for the purpose of determining annual OC emissions:
 - a. The volume of each nonphotochemically reactive cleanup material employed, in gallons per year.
 - b. The OC content of each nonphotochemically reactive cleanup material, in pounds per gallon.
 - c. The total OC emission rate for all nonphotochemically reactive cleanup materials, in pounds.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly OC emissions from the lay-up materials and photochemically reactive cleanup materials exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the OC emissions from the lay-up materials and photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual OC emissions for each such day.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the allowable emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

- 1.a** Emission Limitation: 8 lbs OC/hr, including photochemically reactive cleanup materials.

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the recordkeeping requirements specified in section A.III.1.k. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests, performed in accordance with 40 CFR Part 60, Appendix A, Method 18, 25 or 25A, as appropriate.

- 1.b** Emission Limitation: 40 lbs OC/day, including photochemically reactive cleanup materials.

Applicable Compliance Method:

- i. To calculate emissions from the lay-up operations, the permittee shall employ the following formula:

$$E(\text{lay-up}) = \text{summation of } (W_i \times EFi).$$

Where:

$E(\text{lay-up})$ = the daily organic compound emissions from all lay-up materials, in pounds per day.

i = subscript denoting a specific lay-up material employed.

W_i = the weight of lay-up material "i" employed, in pounds per day.

EF_i = the emission factor for styrene emissions for lay-up material "i", based on the styrene content and mechanical application type, as noted in Table 2.16 of CFA Emission Models for the Reinforced Plastics Industries, Feb. 1998 or any later revisions. If an emission factor is not available in Table 2.16 for the styrene content of the lay-up material (e.g., non-atomized application of polyester resin lay-up material with less than 42% styrene content by weight), the permittee may propose an emission factor subject to Ohio EPA approval or use the most representative emission factor in Table 2.16 as long as it is for a higher styrene content lay-up material.

- ii. To calculate emissions from the photochemically reactive cleanup materials, the permittee shall employ the following formula:

$$E(\text{pcr_cleanup}) = \text{summation of } (V_i \times OC_i).$$

Where:

$E(\text{pcr_cleanup})$ = the daily organic compound emissions from all photochemically reactive cleanup materials, in pounds per day.

i = subscript denoting a specific photochemically reactive cleanup material employed.

V_i = the volume of photochemically reactive cleanup material "i" employed, in gallons per day.

OC_i = the OC content of photochemically reactive cleanup material "i", in pounds per gallon.

- iii. To calculate emissions from all photochemically reactive materials, the permittee shall employ the following formula:

$$E(\text{pcr}) = E(\text{lay-up}) + E(\text{pcr_cleanup}).$$

V. Testing Requirements (continued)

- 1.c** Emission Limitation: 7.3 TPY OC, including all cleanup materials.

Applicable Compliance Method:

- i. To calculate emissions from the nonphotochemically reactive cleanup materials, the permittee shall employ the following formula(s):

$$E(\text{npcr_cleanup}) = \text{summation of } (V_i \times OC_i).$$

Where:

$E(\text{npcr_cleanup})$ = the annual OC emissions from all nonphotochemically reactive cleanup materials, in pounds per year.

i = subscript denoting a specific nonphotochemically reactive cleanup material employed.

V_i = the volume of nonphotochemically reactive cleanup material "i" employed, in gallons per year.

OC_i = the OC content of nonphotochemically reactive cleanup material "i", in pounds per gallon.

- ii. To determine annual OC emissions from all materials, compliance shall be based on the sum of the daily OC emission rates from lay-up materials and photochemically reactive cleanup materials, $E(\text{pcr})$, as specified in section A.V.1.b. of this permit for the calendar year, and the OC emission rate from nonphotochemically reactive cleanup materials, $E(\text{npcr_cleanup})$, for the calendar year, divided by 2000 kounds/ton.

- 2.** Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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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2. Additional Terms and Conditions

None

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 - Terms and Conditions for Emissions Units

Emissions Unit ID: CHOP BOOTH 4 (R006)

Activity Description: SPRAY UP BOOTH MIXTURE OF POLYESTER RESIN IS COMBINED WITH GLASS FIBERS

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Spray lay-up molding of polyester resin mixes and gelcoat mixes to make fiberglass reinforced plastic parts, booth B5-D	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day, excluding cleanup materials. See sections A.1.2.a., A.1.2.b. and A.1.2.c.
	OAC rule 3745-31-05(A)(3) PTI 02-6028	OC emissions shall not exceed 3.17 lbs/hr, 76.1 lbs/day and 13.9 tons/year, including cleanup emissions.

2. Additional Terms and Conditions

- 2.a The emissions of organic material from the spray lay-up operation consist of styrene, a photochemically reactive material.
- 2.b Only nonphotochemically reactive cleanup materials shall be employed. A photochemically reactive material is defined by OAC rule 3745-21-01(C)(5) and is determined at the time the material is employed.
- 2.c The hourly emission limit specified in this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:
 - a. The company identification for each lay-up material (i.e., polyester resin mix or gelcoat mix) and each cleanup material employed.
 - b. An identification of whether or not each cleanup material employed is a photochemically reactive material.
 - c. An identification of whether vapor suppressed or non-vapor suppressed polyester resin mix was employed.
 - d. An identification of the type of mechanical resin application (i.e., uncontrolled atomized spray or non-atomized application) employed.
 - e. The number of pounds of each lay-up material employed.
 - f. The styrene content of each lay-up material, in percent by weight.
 - g. The total OC emission rate for all lay-up materials, in pounds per day.
 - h. The volume of each cleanup material employed, in gallons per day.
 - i. The OC content of each cleanup material, in pounds per gallon.
 - j. The total OC emission rate for all lay-up materials and all cleanup materials, in pounds per day.
 - k. The actual number of hours the emissions unit was in operation.
 - l. The average hourly OC emission rate for all lay-up materials and all cleanup materials, (i.e., (j)/(k)), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly OC emissions from the lay-up materials and the cleanup materials exceeded 3.17 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the OC emissions from the lay-up materials exceeded 40 pounds per day, and the actual OC emissions for each such day.
 - c. An identification of each day during which the OC emissions from the lay-up materials and the cleanup materials exceeded 76.1 pounds per day, and the actual OC emissions for each such day.
 - d. An identification of each day during which any photochemically reactive cleanup materials were employed.
2. The permittee shall submit annual reports which specify the total organic compound emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the allowable emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation: 40 lbs OC/day, excluding cleanup emissions.

Applicable Compliance Method: To calculate emissions the permittee shall employ the following formula:

$$E(\text{lay-up}) = \text{summation of } (W_i \times E_{Fi}).$$

Where:

$E(\text{lay-up})$ = the daily OC emissions from all lay-up materials, in pounds per day.

i = subscript denoting a specific lay-up material employed.

W_i = the weight of lay-up material "i" employed, in pounds per day.

E_{Fi} = the emission factor for styrene emissions for lay-up material "i", based on the styrene content and mechanical application type, as noted in Table 2.16 of CFA Emission Models for the Reinforced Plastics Industries, Feb. 1998 or any later revisions. If an emission factor is not available in Table 2.16 for the styrene content of the lay-up material (e.g., non-atomized application of polyester resin lay-up material with less than 42% styrene content by weight), the permittee may propose an emission factor subject to Ohio EPA approval or use the most representative emission factor in Table 2.16 as long as it is for a higher styrene content lay-up material.

1.b Emission Limitation: 3.17 lbs OC/hr, including cleanup emissions.

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the recordkeeping requirements specified in section A.III.1.I. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests, performed in accordance with 40 CFR Part 60, Appendix A, Method 18, 25 or 25A, as appropriate.

1.c Emission Limitation: 76.1 lbs OC/day, including cleanup emissions.

Applicable Compliance Method: To calculate emissions from the cleanup operations, the permittee shall employ the following formula:

$$E(\text{cleanup}) = \text{summation of } (V_i \times OC_i).$$

Where:

$E(\text{cleanup})$ = the organic compound emissions from all cleanup materials, in pounds per year.

i = subscript denoting a specific cleanup material employed.

V_i = the volume of cleanup material "i" employed, in gallons per day.

OC_i = the OC content of cleanup material "i", in pounds per gallon.

ii. To determine OC emissions from all materials the permittee shall employ the following formula:

$$E(\text{layup} + \text{cleanup}) = E(\text{layup}) + E(\text{cleanup}).$$

Where:

$E(\text{layup} + \text{cleanup})$ = the organic compound emissions from the combination of the lay-up operations and the cleanup operations, in pounds per day.

1.d Emission Limitation: 13.9 TPY OC, including cleanup emissions.

Applicable Compliance Method: To determine annual OC emissions from all materials, compliance shall be based on the sum of the daily OC emission rates from lay-up materials and cleanup materials, $E(\text{lay-up} + \text{cleanup})$, as specified in section A.V.1.c. of this permit for the calendar year, divided by 2000 pounds/ton.

V. Testing Requirements (continued)

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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