



State of Ohio Environmental Protection Agency

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

**CERTIFIED MAIL**

Street Address:

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

Mailing Address:

Lazarus Gov.  
Center

**Application No: 13-03709**

**DATE: 3/15/2001**

Architectural Fiberglass Inc.  
Mike Dobronos  
8300 Bessemer Ave.  
Cleveland, OH 44137-0000

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  
236 East Town Street, Room 300  
Columbus, Ohio 43215

Very truly yours,

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

CC: USEPA

CBAPC



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**Permit To Install**

**Issue Date: 3/15/2001**

**FINAL PERMIT TO INSTALL 13-03709**

Application Number: 13-03709  
APS Premise Number: 1318008262  
Permit Fee: **\$800**  
Name of Facility: Architectural Fiberglass Inc.  
Person to Contact: Mike Dobronos  
Address: 8300 Bessemer Ave.  
Cleveland, OH 44137-0000

Location of proposed air contaminant source(s) [emissions unit(s)]:

**8300 Bessemer Avenue  
Cleveland, Ohio**

Description of proposed emissions unit(s):

**Three polyester resin spray up and gel-coat emission units and a finishing dust collector.**

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. 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 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. 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.

**9. 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.

**10. 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.

**11. 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).

**12. 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.

**13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This 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

Architectural Fiberglass Inc.  
PTI Application: **13-03709**  
**Issued: 3/15/2001**

Facility ID: **1318008262**

permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

**14. Construction Compliance Certification**

The applicant shall provide Ohio EPA with a written certification (see enclosed form) 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.

**15. 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.

**B. 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	22.38
PE	15.7

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. 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>	
K001 - Polyester gelcoat and FRP (fiberglass reinforced plastic parts) spray up booth equipped with a dust hog .	OAC rule 3745-31-05 (A)(3)	OAC rule 3745-17-11 (B)
	OAC rule 3745-21-07 (G)(2)	
	OAC rule 3745-17-07 (A)(1)	

Applicable Emissions  
Limitations/Control Measures

The requirements established pursuant to this rule are equivalent to the requirements established pursuant to OAC rules 3745-21-07 (G)(2), 3745-17-11 (B) and 3745-17-07 (A)(1).

7.3 TPY of Organic Compound (OC) from resin/gelcoat.

2.41 TPY of Particulate Emissions(PE)

OC emissions from nonphotochemically reactive cleanup material shall not exceed 79.7 lbs/month and 0.48 TPY

OC emissions shall not exceed 8 lbs/ hr and 40 lbs/day, on any day when photochemically reactive material is applied.

Visible PE from any stack shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

PE shall not exceed 0.551 lbs / hr, as provided by the rule.

**2. Additional Terms and Conditions**

**2.a** The hourly emission limitation for particulate is based on the emissions unit's potential to emit. Therefore, record keeping and reporting requirements are not necessary to

ensure compliance with this emission limit.

**B. Operational Restrictions**

None

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall collect and record the following information for each day for the resin / gelcoat operation:
  - a. The company identification for each resin / gelcoat and photochemically reactive cleanup material employed.
  - b. The number of gallons of each photochemically reactive cleanup material employed, as applied.
  - c. The number of gallons of each resin / gelcoat material employed each hour of the day, as applied.
  - d. The organic compound content of each resin / gelcoat and photochemically reactive cleanup material employed, in pounds per gallon, excluding water and exempt solvents, as applied.
  - e. The total organic compound emissions rate for all resin / gelcoat and photochemically reactive cleanup materials, in pounds per day.(ex. multiply the voc content (lbs/gallon) by the number of gallons used per day)
  - f. The total organic compound emissions rate for all resin / gelcoats and photochemically reactive cleanup materials, in pounds per hour for each hour of the day.(ex. divide the number pounds used per day by the number of hours operated that day)
2. The permit to install for this emissions unit K001 was evaluated based on the actual materials (typically resin / gelcoats 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(s):

Pollutant: Styrene  
TLV (mg/m<sup>3</sup>): 85.2  
Maximum Hourly Emission Rate (lbs/hr): 8  
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m<sup>3</sup>): 647.5  
MAGLC (ug/m<sup>3</sup>): 2028.6

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:

- a. changes in the composition of the materials used (typically for resin / gelcoats 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;
- 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; and
- 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.).

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:"
  - a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
  - 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 permittee shall keep the following monthly records of all cleanup materials:
    - a. name & i.d
    - b. whether it is photochemically reactive or nonphotochemically reactive
    - c. usage (gallons/month)
    - d. waste (gallon/month)
    - e. VOC content
    - f. VOC emissions

#### **D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. An identification of each hour during which the organic compound emissions from the resin /gelcoat and photochemically reactive cleanup materials exceeded 8 pounds per hour, and the actual organic compound emissions for each such hour.
  - b. An identification of each day during which the organic compound emissions from the resin /gelcoat and photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual organic compound emissions for each such day.

#### **E. Testing Requirements**

1. Emission Limitation - 8 lbs of OC/hr  
  
Applicable Compliance Method -  
Compliance with the above hourly emission limitation shall be determined by the record keeping.
2. Emission limitation - 40 lbs of OC/day  
  
Applicable Compliance Method -  
Compliance with the above daily emissions limitation shall be determined by the record keeping.

3. Emission Limitation - 7.3 TPY of OC

Applicable Compliance Method -

Compliance with the above annual OC limitation shall be determined by the record keeping and shall be the sum of resin / gelcoat used for the calender year.

4. Emission Limitation - 0.551 lb/hr

Applicable Compliance Method-

If required the permittee shall demonstrate compliance with the above hourly particulate emission limitation in accordance with OAC rule 3745-17-03(B)(3), if required by OEPA/LAA..

5. Emission Limitation - 20% opacity, as a six-minute average

Applicable Compliance Method -

Compliance with the above emission limitation shall be determined by OAC rule 3745-17-03 (B)(1).

6. Emission Limitation - 2.41 TPY of PE

Applicable Compliance Method -

Compliance with the annual PE limitation is shown as long as compliance with the hourly PE limitation is maintained (the annual PE limitation was calculated by multiplying the hourly PE limitation by 8,760 and dividing by 2,000).

7. Emission Limitation - 79.7 lbs/month of OC from cleanup

Applicable Compliance Method -

Compliance with the above monthly emission limitation shall be determined by the recordkeeping.

8. Emission limitation - 0.48 TPY of OC from cleanup

Applicable Compliance Method -

Compliance with the above annual OC limitation shall be determined by the recordkeeping and shall be the sum of cleanup used for a calender year.

## F. Miscellaneous Requirements

None

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. 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>	OAC rule 3745-17-11 (B)
K002 - Polyester gelcoat and FRP (fiberglass reinforced plastic parts) spray up booth equipped with a dust hog.	OAC rule 3745-31-05 (A)(3)	
	OAC rule 3745-21-07 (G)(2)	
	OAC rule 3745-17-07 (A)(1)	

Applicable Emissions  
Limitations/Control Measures

The requirements established pursuant to this rule are equivalent to the requirements established pursuant to OAC rules 3745-21-07 (G)(2), 3745-7-11 (B) and 3745-17-07 (A)(1).

7.3 TPY of Organic Compound (OC)  
from resin/gelcoat.

2.41 TPY of Particulate Emissions (PE)

OC emissions from nonphotochemically reactive cleanup material shall not exceed 79.7 lbs/month and 0.48 TPY.

Organic Compound emissions shall not exceed 8 lbs/ hr and 40 lbs/day, on any days when photochemically material applied.

Visible PE from any stack shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

PE shall not exceed 0.551 lbs/ hr, as provided by the rule.

## 2. Additional Terms and Conditions

- 2.a The hourly emission limitation for particulate is based on the emissions unit's potential to emit. Therefore, record keeping and reporting requirements are not necessary to ensure compliance with the emission limit.

## B. Operational Restrictions

None

## C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information for each day for the resin / gelcoat operation:
  - a. The company identification for each resin / gelcoat and photochemically reactive cleanup material employed.
  - b. The number of gallons of each photochemically reactive cleanup material employed, as applied.
  - c. The number of gallons of each resin / gelcoat employed each hour of the day, as applied.
  - d. The organic compound content of each resin / gelcoat and photochemically reactive cleanup material, employed in pounds per gallon, excluding water and exempt solvents, as applied.
  - e. The total organic compound emission rate for all resin / gelcoat and photochemically reactive cleanup materials, in pounds per day. (ex. multiply the VOC content (lbs/gallon) by the number of gallons used per day)
  - f. The total organic compound emission rate for all resin / gelcoat and photochemically reactive cleanup materials, in pounds per hour for each hour of the day. (ex. divide the number of pounds used per day by the number of hours operated that day)
2. The permit to install for this emissions unit K001 was evaluated based on the actual materials (typically resin / gelcoat 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(s):

Pollutant: Styrene

TLV (mg/m<sup>3</sup>): 85.2

Maximum Hourly Emission Rate (lbs/hr): 8

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m<sup>3</sup>): 647.5

MAGLC (ug/m<sup>3</sup>): 2028.6

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:

- a. changes in the composition of the materials used (typically for resin / gelcoat 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;
- 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; and
- 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.).

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

Emissions Unit ID: **K002**

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":
  - a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
  - b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
  - 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 permittee shall keep the following monthly records of all cleanup materials:
  - a. name & i.d
  - b. whether it is photochemically reactive material or nonphotochemically reactive.
  - c. usage (gallon/month)
  - d. waste (gallon/month)
  - e. VOC content
  - f. VOC emissions

#### **D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. An identification of each hour during which the organic compound emissions from the resin / gelcoat and photochemically reactive cleanup materials exceeded 8 pounds per hour, and the actual organic compound emissions for each such hour.
  - b. An identification of each day during which the organic compound emissions from the resin /gelcoat and photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual organic compound emissions for each such day.

#### **E. Testing Requirements**

1. Emission Limitation - 8 lbs of OC/hr  
  
Applicable Compliance Method -

Compliance with the above hourly emission limitation shall be determined by the record keeping.

2. Emission limitation - 40 lbs of OC/day

Applicable Compliance Method -

Compliance with the above daily emissions limitation shall be determined by the record keeping.

3. Emission Limitation - 7.3 TPY of OC

Applicable Compliance Method -

Compliance with the above annual OC limitation shall be determined by the record keeping and shall be the sum of resin / gelcoat used for the calender year.

- 4. Emission Limitation - 0.551 lb/hr

Applicable Compliance Method-

If required the permittee shall demonstrate compliance with the above hourly particulate emission limitation in accordance with OAC rule 3745-17-03(B)(3), if required by OEPA/LAA..

- 5. Emission Limitation - 20% opacity as a six minute average

Applicable Compliance Method -

Compliance with the above emission limitation shall be determined by OAC rule 3745-17-03 (B)(1).

- 6. Emission Limitation - 2.41 TPY of PE

Applicable Compliance Method -

Compliance with the annual PE limitation is shown as long as compliance with the hourly PE limitation is maintained (the annual PE limitation was calculated by multiplying the hourly PE limitation by 8,760 and dividing by 2,000).

- 7. Emission Limitation - 79.7 lbs/month of OC from cleanup

Applicable Compliance Method -

Compliance with the above monthly emission limitation shall be determined by the record keeping.

- 8. Emission Limitation - 0.48 TPY of PE

Applicable Compliance Method -

Compliance with the above annual OC limitation shall be determined by the record keeping and shall be the sum of all cleanup for the calender year.

**F. Miscellaneous Requirements**

None

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. 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>	OAC rule 3745-17-11 (B)
K003 - Polyester gelcoat and FRP (fiberglass reinforced plastic parts) spray up booth equipped with a dust hog.	OAC rule 3745-31-05 (A)(3)	
	OAC rule 3745-21-07 (G)(2)	
	OAC rule 3745-17-07 (A)(1)	

Applicable Emissions  
Limitations/Control Measures

The requirements established pursuant to this rule are equivalent to the requirements established pursuant to OAC rules 3745-21-07 (G)(2), 374517-11(B) and 3745-17-07 (A)(1).

7.3 TPY of Organic Compound (OC)  
from resin/gelcoat.

2.41 TPY of Particulate Emissions (PE)

OC emissions from non photochemically reactive cleanup material shall not exceed 79.7 lbs/month and 0.48 TPY.

Organic Compound emissions shall not exceed 8 lbs/hr and 40 lbs/day on any day when photochemically reactive material is applied..

Visible PE from any stack shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

PE shall not exceed 0.551 lbs/hr, as provided by the rule.

**2. Additional Terms and Conditions**

- 2.a** The hourly emission limitation for particulate is based on the emissions unit's potential to emit. Therefore, record keeping and reporting requirements are not necessary to ensure compliance with this emissions limit.

**B. Operational Restrictions**

None

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall collect and record the following information for each day for the resin / gelcoat operation:
  - a. The company identification for each photochemically reactive cleanup material employed.
  - b. The number of gallons of each resin / gelcoat employed, as applied.
  - c. The number of gallons of each photochemically reactive cleanup material employed each hour of the day, as applied.
  - d. The organic compound content of each resin / gelcoat and photochemically reactive cleanup material, in pounds per gallon, excluding water and exempt solvents, as applied.
  - e. The total organic compound emission rate for all resin / gelcoats and photochemically reactive cleanup materials, in pounds per day. (ex. multiply the VOC content (lbs/gallon) by the number of gallons used per day)
  - f. The total organic compound emission rate for all resin / gelcoats and photochemically reactive cleanup materials, in pounds per hour for each hour of the day. (ex. divide the number of pounds used per day by the number of hours operated that day)
2. The permit to install for this emissions unit K001 was evaluated based on the actual materials (typically resin / gelcoat 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

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Emissions Unit ID: **K003**

results of the modeling for the "worst case" pollutant(s):

Pollutant: Styrene

TLV (mg/m<sup>3</sup>): 85.2

Maximum Hourly Emission Rate (lbs/hr): 8

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m<sup>3</sup>): 647.5

MAGLC (ug/m<sup>3</sup>): 2028.6

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 still 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:

- a. changes in the composition of the materials used (typically for resin / gelcoat 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;
- 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; and
- 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.).

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

Emissions Unit ID: **K003**

evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
  - b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
  - 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 permittee shall keep monthly records of all cleanup materials:
- a. name & i.d.
  - b. whether it is photochemically reactive material
  - c. usage (gallons/month)
  - d. waste (gallon/month)
  - e. VOC content
  - f. VOC emissions

#### **D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. An identification of each hour during which the organic compound emissions from the resin /gelcoat and photochemically reactive cleanup materials exceeded 8 pounds per hour, and the actual organic compound emissions for each such hour.
  - b. An identification of each day during which the organic compound emissions from the resin /gelcoat and photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual organic compound emissions for each such day.

#### **E. Testing Requirements**

1. Emission Limitation - 8 lbs of OC/hr  
  
 Applicable Compliance Method -  
 Compliance with the above hourly emission limitation shall be determined by the record keeping.
2. Emission limitation - 40 lbs of OC/day

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Applicable Compliance Method -

Compliance with the above daily emissions limitation shall be determined by the record keeping.

3. Emission Limitation - 7.3 TPY of OC

Applicable Compliance Method -

Compliance with the above annual OC limitation shall be determined by the record keeping and shall be the sum of resin / gelcoat used for the calender year.

4. Emission Limitation - 0.551 lb/hr

Applicable Compliance Method-

If required the permittee shall demonstrate compliance with the above hourly particulate emission limitation in accordance with OAC rule 3745-17-03(B)(3).

5. Emission Limitation - 20% opacity, as a six- minute average

Applicable Compliance Method -

Compliance with the above emission limitation shall be determined by OAC rule 3745-17-03 (B)(1).

6. Emission Limitation - 2.41 TPY of PE

Applicable Compliance Method-

7. Emission Limitation - 79.7 lbs/month of OC from cleanup

Applicable Compliance Method -

Compliance with the above monthly emission limitation shall be determined by the record keeping.

8. Emission Limitation - 0.48 TPY of OC from cleanup

Applicable Compliance Method -

Compliance with the above annual OC limitation shall be determined by the record keeping and shall be the sum of all cleanup for the calender year.

## **F. Miscellaneous Requirements**

None

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. 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>
P001 - Dust hog dust collector for sanding, cutting and trimming FRP (fiberglass reinforced plastic parts) molded parts.	OAC rule 3745-31-05 (A)(3)	The requirements established pursuant to this rule are equivalent to the requirements established pursuant to OAC rule 3745-17-11 (B) and OAC rule 3745-17-07(A)(1).
	OAC rule 3745-17-11 (B)	1.95 lbs/hr of particulate emissions and 8.54 TPY
	OAC rule 3745-17-07 (A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

**2. Additional Terms and Conditions**

- 2.a The emission unit shall be operated and maintained in accordance with manufacturer's recommendations. Filters shall be maintained (changed or cleaned) regularly per manufacturer's recommendations in order to obtain the highest effective level of particulate emissions control. Maintenance of exhaust filters (cleaning and/or changing of filter elements) shall be recorded in an operation log maintained at the facility.

**B. Operational Restrictions**

1. The pressure drop across the dust hog shall be maintained within the range of 1 to 3 inches of water column while the emission unit is in operation.

### **C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the dust hog while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with manufacture's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the dust hog on a continuous basis.

### **D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the dust hog did not comply with allowable range specified above.

### **E. Testing Requirements**

1. Emission Limitation:  
1.95 lbs/hr of particulate emissions

Applicable Compliance Method:

Compliance shall be determined in accordance with the test methods and procedures in OAC rule 3745-17-03 (B)(10)(a), if required by Ohio EPA.

2. Emission Limitation:  
8.54 TPY of particulate emissions

Applicable Compliance Method:

The ton per year limitations were developed by multiplying the pound per hour limitation by the maximum operating schedule of 8,760 hours per year. Therefore, provided compliance is shown with the hourly limitations, compliance will also be shown with the annual limitations.

3. Emission Limitation - 20% opacity as a six minute average

Applicable Compliance Method -

Compliance with the above emission limitation shall be determined by OAC rule 3745-17-03

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(B)(1).

**F. Miscellaneous Requirements**

None

**NEW SOURCE REVIEW FORM B**

PTI Number: 13-03709 Facility ID: 1318008262

FACILITY NAME Architectural Fiberglass Inc.

FACILITY DESCRIPTION Three polyester resin sprav up and gel-coat CITY/TWP Cleveland

Emissions Unit ID: P001

SIC CODE 3089 SCC CODE 3-08-006-99 EMISSIONS UNIT ID K001

EMISSIONS UNIT DESCRIPTION Polyester gelcoat and FRP (fiber glass reinforced plastic parts) spray up booth.

DATE INSTALLED

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter		.0056 lbs/hr	.0058	.551 lbs/hr	2.41
PM <sub>10</sub>					
Sulfur Dioxide					
Organic Compounds		4.56 lbs/hr	1.69	8 lbs/hr	4
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

**WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?**

Enter Determination compliance with the terms/conditions and rules /regulations of this permit.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? X YES NO

IDENTIFY THE AIR CONTAMINANTS: Styrene

**NEW SOURCE REVIEW FORM B**

PTI Number: 13-03709 Facility ID: 1318008262

FACILITY NAME Architectural Fiberglass Inc.

FACILITY DESCRIPTION Three polyester resin sprav up and gel-coat CITY/TWP Cleveland

Emissions Unit ID: **P001**

SIC CODE 3089 SCC CODE 3-08-006-99 EMISSIONS UNIT ID K002

EMISSIONS UNIT DESCRIPTION Polyester gelcoat and FRP (fiberglass reinforced plastic parts) spray up booth.

DATE INSTALLED 07/2000

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter		.0056 lbs/hr	.0058	.551 lbs/hr	2.4
PM <sub>10</sub>					
Sulfur Dioxide					
Organic Compounds		4.56 lbs/hr	1.69	8 lbs/hr	4
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

**WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?**

**Enter Determination** Compliance with the terms/conditions and rules and regulations of this permit.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? X YES        NO

IDENTIFY THE AIR CONTAMINANTS: Styrene

**NEW SOURCE REVIEW FORM B**

PTI Number: 13-03709

Facility ID: 1318008262

FACILITY NAME Architectural Fiberglass Inc.

FACILITY DESCRIPTION Three polyester resin sprav up and gel-coat CITY/TWP Cleveland

Emissions Unit ID: P001

SIC CODE 3089

SCC CODE 3-08-006-99

EMISSIONS UNIT ID K003

EMISSIONS UNIT DESCRIPTION Polyester gelcoat and FRP (fiberglass reinforced plastic parts) spray up booth.

DATE INSTALLED

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter		.0056 lbs/hr	.0058	.551 lbs/hr	7.24
PM <sub>10</sub>					
Sulfur Dioxide					
Organic Compounds		4.56 lbs/hr	1.69	8 lbs/hr	4
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination Compliance with the terms/conditions and rules and regulations of this permit.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? Yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? X YES NO

IDENTIFY THE AIR CONTAMINANTS: Styrene



**NEW SOURCE REVIEW FORM B**

PTI Number: 13-03709

Facility ID: 1318008262

FACILITY NAME Architectural Fiberglass Inc.

FACILITY DESCRIPTION Three polyester resin spray up and gel-coat CITY/TWP Cleveland

Emissions Unit ID: P001

Ohio EPA Permit to Install Information Form Please describe below any documentation which is being submitted with this recommendation (must be sent the same day). Electronic items should be submitted with the e-mail transmitting the PTI terms, and in software that CO can utilize. If mailing any hard copy, this section must be printed as a cover page. All items must be clearly labeled indicating the PTI name and number. Submit **hard copy items to Pam McGraner**, AQM&P, DAPC, Central Office, and electronic files to [airpti@epa.state.oh.us](mailto:airpti@epa.state.oh.us)

*Please fill out the following. If the checkbox does not work, replace it with an 'X'*

	<u>Electronic</u>	<u>Additional information File Name Convention (your PTI # plus this letter)</u>	<u>Hard Copy</u>	<u>None</u>
<u>Calculations (required)</u>	<input checked="" type="checkbox"/>	1303709c.wpd	<input type="checkbox"/>	
<u>Modeling form/results</u>	<input type="checkbox"/>	0000000s.wpd	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>PTI Application (complete or partial)*</u>	<input type="checkbox"/>	1303709a.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>BAT Study</u>	<input type="checkbox"/>	0000000b.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Other/misc.</u>	<input type="checkbox"/>	0000000t.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>

\* Mandatory for netting, PSD, nonattainment NSR, 112(g), 21-07(G)(9)(g) and 21-09(U)(2)(f) - 2 complete copies.

Please complete (see comment bubble to the left for additional instructions):

NSR Discussion

NONE

Please complete for these type permits (For PSD/NSR Permit, place mouse over this text):

Synthetic Minor Determination and/or  Netting Determination  
Permit To Install ENTER PTI NUMBER HERE

A. Source Description

B. Facility Emissions and Attainment Status

C. Source Emissions

D. Conclusion

PLEASE PROVIDE ADDITIONAL NOTES OR COMMENTS AS NECESSARY:

NONE

Please complete:

**SUMMARY** (for informational purposes only)

36 **NEW SOURCE REVIEW FORM B**

PTI Number: 13-03709

Facility ID: 1318008262

FACILITY NAME Architectural Fiberglass Inc.

FACILITY DESCRIPTION Three polyester resin spray up and gel-coat CITY/TWP Cleveland

Emissions Unit ID: **P001**

**TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
OC	22.38
PE	15.7