



State of Ohio Environmental Protection Agency

Street Address:

1800 WaterMark Drive  
Columbus, OH 43215-1099

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

Mailing Address:

P.O. Box 1049  
Columbus, OH 43216-1049

07/09/98

**CERTIFIED MAIL**

**RE: Proposed Title V Chapter 3745-77 permit**

16-67-02-0035

Omega Pultrusions 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 Omega Pultrusions Inc., has been created in Ohio EPA's State Air Resources System (STARS) on 07/09/98, 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: Akron Air Pollution Control  
Becky Castle, DAPC PMU



## Ohio EPA

State of Ohio Environmental Protection Agency

### TITLE V PERMIT

Date: 07/09/98

### PROPOSED

Effective Date:

Expiration Date:

This document constitutes issuance to:

Omega Pultrusions Inc.  
1331 S. Chillicothe Rd.  
n/a  
Aurora, OH 44202-9618

of a Title V permit for Facility ID: 16-67-02-0035

Emissions Unit ID (Company ID)/  
Emissions Unit Activity Description:

L001 (Cold Cleaning Sta.)  
Batch Cold Parts Cleaner

L002 (Cold Cleaning Sta.)  
Batch Cold Parts Cleaner

L003 (Cold Cleaning Sta.)  
Batch Cold Parts Cleaner

P901 (Production Line 1)  
Pultrusion Process Production Unit

P902 (Production Line 2)  
Pultrusion Process Production Unit

P903 (Production Line 3)  
Pultrusion Process Production Unit

P904 (Production Line 4)  
Pultrusion Process Production Unit

P905 (Production Line 5)  
Pultrusion Process Production Unit

P906 (Production Line 6)  
Pultrusion Process Production Unit

P907 (Production Line 7)

Pultrusion Process Production Unit

P908 (Production Line 8 )  
Pultrusion Process Productiton Unit

P909 (Production Line 9)  
Pultrusion Process Production Unit

P910 (Production Line 10)  
Pultrusion Process Production Unit

P911 (Production Line 11)  
Pultrusion Process Production Unit

P912 (Production Line 12)  
Pultrusion Process Production Unit

P913 (Production Line 13)  
Pultrusion Process Production Unit

P914 (Production Line 14 )  
Pultrusion Process Production Unit

P915 (Production Line 15 )  
Pultrusion Process Production Unit

P917 (T-wood Robotics)  
Two Large Fabrication Machines

P918 (Sill Robotics)  
One Large Fabricaion Machines

P919 (General Fab. Machs.)  
A Number of General Fabrication Machines - manual and automatic

P922 (Production Line 16)  
Pultrusion Process Production Unit

P923 (Production Line 17)  
Pultrusion Process Production Unit

P924 (Production Line 18)  
Pultrusion Process Production Unit

P925 (Production Line 19)  
Pultrusion Process Production Unit

P926 (Production Line 20)  
Pultrusion Process Production Unit

P927 (Production Line 21)  
Pultrusion Process Production Unit

P928 (Production Line 22)  
Pultrusion Process Production Unit

T001 (Resin Tanks 1-4)  
Process Resin Storage Tanks; Atmospheric

T002 (Styrene Tank)  
Process Styrene Storage Tanks; Atmospheric, outside

T003 (Polystyrene Tank)  
Polystyrene Storage Tank; Atmospheric

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:

Akron Air Pollution Control  
146 South High Street, Room 904  
Akron, OH 44308  
(330) 375-2480

## OHIO ENVIRONMENTAL PROTECTION AGENCY

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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**

No term or condition specifying a method for demonstrating compliance with any emission limitation or other requirement of this permit shall preclude the use by any person of any credible evidence to establish compliance with or a violation of this permit, the Clean Air Act, or any implementing regulations or rules promulgated thereunder.

## **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 Enforceable Section

1. In order to limit potential to emit for the purpose of avoiding additional new source review requirements, annual emissions from all emissions units at this facility, based upon a rolling, 365-day summation of emissions, shall not exceed the levels specified in the following table:

Pollutant	Emissions (TPY)
organic material	127
volatile organic compounds	81
styrene	43

It is intended, and the applicant has requested, that the above limits and respective monitoring, record keeping, and reporting be federally enforceable.

2. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the maximum allowable cumulative emissions, in tons, as specified in the following table:

Months	Organic Materials	VOC's	Styrene
1	15.87	10.13	5.42
1-2	31.75	20.25	10.28
1-3	47.62	30.38	13.93
1-4	63.50	40.50	18.40
1-5	79.37	50.63	21.59
1-6	95.25	60.75	24.81
1-7	111.12	70.88	28.04
1-8	127.00	81.00	31.22
1-9	127.00	81.00	34.44
1-10	127.00	81.00	37.67
1-11	127.00	81.00	40.33
1-12	127.00	81.00	43.00

3. Compliance with the above annual limitations, except during the first 12 calendar months of operation following the issuance of this permit, shall be based upon a rolling, 365-day summation of emissions from all emissions units at the facility.
4. The permittee shall maintain daily records indicating the rolling, 365-day annual and daily facility emission calculations for organic materials, VOC's, and styrene.
5. The permittee shall notify the Akron Regional Air Quality Management District in writing of any daily record showing an exceedance in the facility-wide emission limitations established by this permit for organic materials, VOC's, and styrene. The notification shall include a copy of such record and shall be sent to the Akron Regional Air Quality Management District within 45 days after the exceedance occurs.

**B. State Only Enforceable Section**

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

P916 - resin mixing stations 1-3  
 Z033 - laboratory  
 Z034 - hastings plt heater  
 Z035 - trane ofc heater  
 Z036 - resin room heater  
 Z037 - manufacturing ofc heater  
 Z038 - link building heater

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

2. This permit allows the use of resin batch, process, and cleanup materials specified by the permittee in the application for PTI number 16-980. In conjunction with the best available technology requirements of OAC rule 3745-31-05, the daily, facility-wide emission limitations specified in this permit were established in accordance with the Ohio EPA's "Air Toxics Policy" and are based on the resin batch, process, and cleanup material formulation data and the design parameters of the emissions unit's exhaust system, as specified in the application.

Compliance with the Ohio EPA's "Air Toxics Policy" was demonstrated, after stack height modifications, for each pollutant based on the Screen 3 model and a comparison of the predicted 1 hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). In accordance with Ohio EPA's "Air Toxics Policy", the stack heights for vents PVF5, PVF8, PVF11, and PVF12 shall be increased to 1.5 times building height (i.e., 30 ft).

3. The following establishes daily, facility-wide allowable emissions and summarizes the results of the modeling for each pollutant:

Pollutant	Allowable Emissions (lbs/day)
methylene chloride	260
styrene	520
trimethylbenzene	60

- 3.a Pollutant - methylene chloride

TLV (mg/m3): 174

Maximum Hourly Emission Rate (pounds/hour): 16.5

Predicted 1 Hour Maximum Ground-Level Concentration at the Fenceline (ug/m3): 3,851

MAGLC (ug/m3): 4,143

- 3.b Pollutant - styrene

TLV (mg/m3): 85.2

Maximum Hourly Emission Rate (pounds/hour): 21.6

Predicted 1 Hour Maximum Ground-Level Concentration at the Fenceline (ug/m3): 1,647

MAGLC (ug/m3): 2,029

**B. State Only Enforceable Section (continued)**

**3.c** Pollutant - trimethylbenzene

TLV (mg/m<sup>3</sup>): 123

Maximum Hourly Emission Rate (pounds/hour): 2.7

Predicted 1 Hour Maximum Ground-Level Concentration at the Fenceline (ug/m<sup>3</sup>): 620

MAGLC (ug/m<sup>3</sup>): 2,929

- 4.** Any of the following changes may be deemed a "modification" to the emissions unit and, as such, prior notification to and approval from the appropriate Ohio EPA District Office or local air agency are required, including the possible issuance of a modification to the operating permit or the requirement to obtain a new permit to install:
- a. any changes in the composition of the resin batch, process, or cleanup materials, or the use of new coatings or cleanup 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 specified in the above table;
  - b. any change to the emissions unit or its exhaust parameters (e.g., increased emission rate, reduction of exhaust gas flow rate, and decreased stack height) that would result in an exceedance of any MAGLC specified in the above table;
  - c. any change to the emissions unit or its method of operation that would either require an increase in the emission limitations established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01;
  - d. any change in the composition of the resin batches, processes, or cleanup materials, or use of new resin batches, processes, or cleanup materials, that would result in the emission of any of the exempted organic compounds included in the definition of "VOC" [OAC rule 3745-21-01(B)(6)]; and
  - e. any change in the composition of the resin batches, processes, or cleanup materials, or use of new resin batches, processes, or cleanup materials, that would result in an increase in emissions of any "Hazardous Air Pollutants" as defined in OAC rule 3745-77-01(V).
- 5.** Compliance with the daily emission limitations established under Ohio EPA's "Air Toxics Policy" shall be based upon a daily summation of emissions from all emissions units at the facility. Emissions from each pultrusion and fabrication machine shall be calculated using daily emission and material usage records. Emissions from the remaining emissions units shall be the average daily allowable values.
- 6.** The permittee no longer employs methylene chloride and trimethylbenzene during the operation of these emissions units. Should the use of methylene chloride and trimethylbenzene be required in the future during the operation of these emissions units, the permittee shall apply for and obtain a new permit to install. Because the permittee no longer employs methylene chloride and trimethylbenzene, the associated recordkeeping and reporting requirements have been removed from this permit.

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Cold Cleaning Sta. (L001)  
**Activity Description:** Batch Cold Parts Cleaner

#### 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>
Batch cold parts cleaner, Z027	OAC rule 3745-31-05 (PTI 16-980)	20.0 lbs/day of VOC
	OAC rule 3745-21-09(O)	See A.I.2 below.

##### 2. Additional Terms and Conditions

- 2.a The permittee shall equip the cold cleaner with one of the following:
  - i. the cold cleaner shall be operated with a cover, and if the solvent has a vapor pressure greater than 0.3 pound per square inch absolute, measured at 100 degrees Fahrenheit or, if the solvent is heated or agitated, the cover shall be designed and constructed so that it can be easily operated with one hand; or
  - ii. the cold cleaner shall employ a remote solvent reservoir from which solvent is pumped through a nozzle suspended over a sink-like work area which drains back to the reservoir, provided the sink-like work area has an open drain area of less than 16 square inches and provided the solvent neither is heated above 120 degrees Fahrenheit nor has a vapor pressure greater than 0.6 pound per square inch absolute, measured at 100 degrees Fahrenheit.
- 2.b The cold cleaner shall be equipped with a device for draining the cleaned parts; and if the solvent has a vapor pressure greater than 0.6 pound per square inch absolute, measured at 100 degrees Fahrenheit, the drainage facility shall be constructed internally so that parts are enclosed under the cover during draining, unless an internal type drainage device cannot fit into the cleaning system.
- 2.c The permittee shall install one of the following devices if the solvent vapor pressure is greater than 0.6 pound per square inch absolute measured at 100 degrees Fahrenheit, or if the solvent is heated above 120 degrees Fahrenheit:
  - i. freeboard that gives a freeboard ratio greater than or equal to 0.7;
  - ii. water cover (solvent must be insoluble in and heavier than water); or
  - iii. other systems of equivalent control, such as refrigerated chiller or carbon adsorption, approved by the Director.

## II. Operational Restrictions

1. The cold cleaner shall be operated and maintained in accordance with the following practices to minimize solvent evaporation from the unit:
  - a. provide a permanent, legible, conspicuous label, summarizing the operating requirements;
  - b. store waste solvent in covered containers;
  - c. close the cover whenever parts are not being handled in the cleaner;
  - d. drain the cleaned parts until dripping ceases;
  - e. if used, supply a solvent spray that is a solid fluid stream (not a fine, atomized, or shower-type spray) at a pressure that does not exceed 10 pounds per square inch gauge; and
  - f. clean only materials that are neither porous nor absorbent.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records, that contain the following information:
  - a. the types of solvents employed;
  - b. the vapor pressure of each solvent, in pounds per square inch absolute, measured at one hundred degrees Fahrenheit;
  - c. the amounts of solvents employed and recycled per day, in gallons;
  - d. the number of hours per day that the emission unit was in operation;
  - e. all control equipment maintenance; and
  - f. the calculated daily VOC emission rate, in pounds per day.

## IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which provide an identification of each day during which the VOC emissions exceeded the daily mass emission limitation of 20.0 lbs/day, and the actual VOC emissions for each such day.
2. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

## V. Testing Requirements

1. Compliance with the emission limitation in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method:
  - 1.a Emission Limitation:  
20.0 lbs/day of VOC  
  
Applicable Compliance Method:  
  
Multiply the difference of the amount of solvent employed, in gallons per day, and the amount of solvent recycled, in gallons per day, by the density of the solvent, in pounds per gallon.

## 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:** Cold Cleaning Sta. (L002)  
**Activity Description:** Batch Cold Parts Cleaner

#### 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>
Batch cold parts cleaner, Z028	OAC rule 3745-31-05 (PTI 16-980)	20.0 lbs/day of VOC
	OAC rule 3745-21-09(O)	See A.I.2 below.

##### 2. Additional Terms and Conditions

- 2.a The permittee shall equip the cold cleaner with one of the following:
  - i. the cold cleaner shall be operated with a cover, and if the solvent has a vapor pressure greater than 0.3 pound per square inch absolute, measured at 100 degrees Fahrenheit or, if the solvent is heated or agitated, the cover shall be designed and constructed so that it can be easily operated with one hand; or
  - ii. the cold cleaner shall employ a remote solvent reservoir from which solvent is pumped through a nozzle suspended over a sink-like work area which drains back to the reservoir, provided the sink-like work area has an open drain area of less than 16 square inches and provided the solvent neither is heated above 120 degrees Fahrenheit nor has a vapor pressure greater than 0.6 pound per square inch absolute, measured at 100 degrees Fahrenheit.
- 2.b The cold cleaner shall be equipped with a device for draining the cleaned parts; and if the solvent has a vapor pressure greater than 0.6 pound per square inch absolute, measured at 100 degrees Fahrenheit, the drainage facility shall be constructed internally so that parts are enclosed under the cover during draining, unless an internal type drainage device cannot fit into the cleaning system.
- 2.c The permittee shall install one of the following devices if the solvent vapor pressure is greater than 0.6 pound per square inch absolute measured at 100 degrees Fahrenheit, or if the solvent is heated above 120 degrees Fahrenheit:
  - i. freeboard that gives a freeboard ratio greater than or equal to 0.7;
  - ii. water cover (solvent must be insoluble in and heavier than water); or
  - iii. other systems of equivalent control, such as refrigerated chiller or carbon adsorption, approved by the Director.

## II. Operational Restrictions

1. The cold cleaner shall be operated and maintained in accordance with the following practices to minimize solvent evaporation from the unit:
  - a. provide a permanent, legible, conspicuous label, summarizing the operating requirements;
  - b. store waste solvent in covered containers;
  - c. close the cover whenever parts are not being handled in the cleaner;
  - d. drain the cleaned parts until dripping ceases;
  - e. if used, supply a solvent spray that is a solid fluid stream (not a fine, atomized, or shower-type spray) at a pressure that does not exceed 10 pounds per square inch gauge; and
  - f. clean only materials that are neither porous nor absorbent.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records, that contain the following information:
  - a. the types of solvents employed;
  - b. the vapor pressure of each solvent, in pounds per square inch absolute, measured at one hundred degrees Fahrenheit;
  - c. the amounts of solvents employed and recycled per day, in gallons;
  - d. the number of hours per day that the emission unit was in operation;
  - e. all control equipment maintenance; and
  - f. the calculated daily VOC emission rate, in pounds per day.

## IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which provide an identification of each day during which the VOC emissions exceeded the daily mass emission limitation of 20.0 lbs/day, and the actual VOC emissions for each such day.
2. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

## V. Testing Requirements

1. Compliance with the emission limitation in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method:
  - 1.a Emission Limitation:  
  
20.0 lbs/day of VOC  
  
Applicable Compliance Method:  
  
Multiply the difference of the amount of solvent employed, in gallons per day, and the amount of solvent recycled, in gallons per day, by the density of the solvent, in pounds per gallon.

## 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:** Cold Cleaning Sta. (L003)  
**Activity Description:** Batch Cold Parts Cleaner

#### 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>
Batch cold parts cleaner, Z029	OAC rule 3745-31-05 (PTI 16-980)	20.0 lbs/day of VOC
	OAC rule 3745-21-09(O)	See A.I.2 below.

##### 2. Additional Terms and Conditions

- 2.a The permittee shall equip the cold cleaner with one of the following:
  - i. the cold cleaner shall be operated with a cover, and if the solvent has a vapor pressure greater than 0.3 pound per square inch absolute, measured at 100 degrees Fahrenheit or, if the solvent is heated or agitated, the cover shall be designed and constructed so that it can be easily operated with one hand; or
  - ii. the cold cleaner shall employ a remote solvent reservoir from which solvent is pumped through a nozzle suspended over a sink-like work area which drains back to the reservoir, provided the sink-like work area has an open drain area of less than 16 square inches and provided the solvent neither is heated above 120 degrees Fahrenheit nor has a vapor pressure greater than 0.6 pound per square inch absolute, measured at 100 degrees Fahrenheit.
- 2.b The cold cleaner shall be equipped with a device for draining the cleaned parts; and if the solvent has a vapor pressure greater than 0.6 pound per square inch absolute, measured at 100 degrees Fahrenheit, the drainage facility shall be constructed internally so that parts are enclosed under the cover during draining, unless an internal type drainage device cannot fit into the cleaning system.
- 2.c The permittee shall install one of the following devices if the solvent vapor pressure is greater than 0.6 pound per square inch absolute measured at 100 degrees Fahrenheit, or if the solvent is heated above 120 degrees Fahrenheit:
  - i. freeboard that gives a freeboard ratio greater than or equal to 0.7;
  - ii. water cover (solvent must be insoluble in and heavier than water); or
  - iii. other systems of equivalent control, such as refrigerated chiller or carbon adsorption, approved by the Director.

## II. Operational Restrictions

1. The cold cleaner shall be operated and maintained in accordance with the following practices to minimize solvent evaporation from the unit:
  - a. provide a permanent, legible, conspicuous label, summarizing the operating requirements;
  - b. store waste solvent in covered containers;
  - c. close the cover whenever parts are not being handled in the cleaner;
  - d. drain the cleaned parts until dripping ceases;
  - e. if used, supply a solvent spray that is a solid fluid stream (not a fine, atomized, or shower-type spray) at a pressure that does not exceed 10 pounds per square inch gauge; and
  - f. clean only materials that are neither porous nor absorbent.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records, that contain the following information:
  - a. the types of solvents employed;
  - b. the vapor pressure of each solvent, in pounds per square inch absolute, measured at one hundred degrees Fahrenheit;
  - c. the amounts of solvents employed and recycled per day, in gallons;
  - d. the number of hours per day that the emission unit was in operation;
  - e. all control equipment maintenance; and
  - f. the calculated daily VOC emission rate, in pounds per day.

## IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which provide an identification of each day during which the VOC emissions exceeded the daily mass emission limitation of 20.0 lbs/day, and the actual VOC emissions for each such day.
2. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

## V. Testing Requirements

1. Compliance with the emission limitation in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method:
  - 1.a Emission Limitation:  
  
20.0 lbs/day of VOC  
  
Applicable Compliance Method:  
  
Multiply the difference of the amount of solvent employed, in gallons per day, and the amount of solvent recycled, in gallons per day, by the density of the solvent, in pounds per gallon.

## 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:** Production Line 1 (P901)  
**Activity Description:** Pultrusion Process Production Unit

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- 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>
Pultrusion process production unit Z001	OAC rule 3745-31-05 (PTI 16-980)	8.0 lbs/hr total organic materials* 40.0 lbs/day total organic materials* 0.2 lb/hr particulate matter
		*as defined under OAC 3745-21-01 -- also includes cleanup emissions
	OAC rule 3745-17-07	20% opacity as a 6-minute average, except as provided by rule, for stack emissions
		20% opacity as a 3-minute average, for fugitive emissions
	OAC rule 3745-17-08	See A.2.a below.
	OAC rule 3745-17-11	See A.2.b below.
	OAC rule 3745-21-07(G)	See A.2.b below.

##### 2. Additional Terms and Conditions

- The permittee shall operate and maintain hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control emissions so as to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- The emission limitation required by this rule is less stringent than the emission limitation as determined using best available technology.

##### II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation; except for the 5 to 7 minutes per hour that each cyclone is in its blow-back mode for the purpose of filter decaking. During this mode, venting of particulates to the outside of the equipment, or the facility, shall not occur.

### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis; but not during the periods of the blow-back operation.
2. The permittee shall record the following information on a daily basis for the line:
  - a. identification and quantity (pounds) of each resin batch received for processing;
  - b. styrene content (% by weight) of each batch;
  - c. styrene emissions from each batch, i.e., (% styrene) x (batch weight) x (0.04, AP-42 emission factor);
  - d. identification and net usage (pounds emissions) of each wiping solvent and organic material cleaning liquid employed (net usage shall be the difference between quantities employed and any returned for disposal/recycling, including solids);
  - e. production hours; and
  - f. daily (pounds) and average hourly emissions (pounds/hour) resulting from resin batch processing, and clean-up materials for the following pollutants:
    - i. organic material;
    - ii. volatile organic compounds; and
    - iii. styrene..

These calculations shall be based upon a mass balance approach.

### IV. 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 baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each day during which the average hourly organic material emissions exceeded 8.0 pounds per hour, and the actual average hourly organic material emissions for each such day; and
  - b. an identification of each day during which the organic material emissions exceeded 40.0 pounds per day, and the actual organic material emissions for each such day.
3. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

### V. Testing Requirements

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

**V. Testing Requirements (continued)**

**1.a** Emission Limitation:

8.0 lbs/hr total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average hourly total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.b** Emission Limitation:

40.0 lbs/day total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average daily total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.c** Emission Limitation:

0.2 lb/hr particulate matter

Applicable Compliance Method:

If required, compliance with the particulate mass emission limitation shall be in accordance with the method(s) and procedures required by OAC rule 3745-17-03(B)(10).

**1.d** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**1.e** Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

**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:** Production Line 2 (P902)  
**Activity Description:** Pultrusion Process Production Unit

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- 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>
Pultrusion process production unit Z002	OAC rule 3745-31-05 (PTI 16-980)	8.0 lbs/hr total organic materials* 40.0 lbs/day total organic materials* 0.2 lb/hr particulate matter
		*as defined under OAC 3745-21-01 -- also includes cleanup emissions
	OAC rule 3745-17-07	20% opacity as a 6-minute average, except as provided by rule, for stack emissions
		20% opacity as a 3-minute average, for fugitive emissions
	OAC rule 3745-17-08	See A.2.a below.
	OAC rule 3745-17-11	See A.2.b below.
	OAC rule 3745-21-07(G)	See A.2.b below.

##### 2. Additional Terms and Conditions

- The permittee shall operate and maintain hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control emissions so as to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- The emission limitation required by this rule is less stringent than the emission limitation as determined using best available technology.

##### II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation; except for the 5 to 7 minutes per hour that each cyclone is in its blow-back mode for the purpose of filter decaking. During this mode, venting of particulates to the outside of the equipment, or the facility, shall not occur.

### **III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis; but not during the periods of the blow-back operation.
2. The permittee shall record the following information on a daily basis for the line:
  - a. identification and quantity (pounds) of each resin batch received for processing;
  - b. styrene content (% by weight) of each batch;
  - c. styrene emissions from each batch, i.e., (% styrene) x (batch weight) x (0.04, AP-42 emission factor);
  - d. identification and net usage (pounds emissions) of each wiping solvent and organic material cleaning liquid employed (net usage shall be the difference between quantities employed and any returned for disposal/recycling, including solids);
  - e. production hours; and
  - f. daily (pounds) and average hourly emissions (pounds/hour) resulting from resin batch processing, and clean-up materials for the following pollutants:
    - i. organic material;
    - ii. volatile organic compounds; and
    - iii. styrene.

These calculations shall be based upon a mass balance approach.

### **IV. 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 baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each day during which the average hourly organic material emissions exceeded 8.0 pounds per hour, and the actual average hourly organic material emissions for each such day; and
  - b. an identification of each day during which the organic material emissions exceeded 40.0 pounds per day, and the actual organic material emissions for each such day.
3. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

### **V. Testing Requirements**

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

**V. Testing Requirements (continued)**

**1.a** Emission Limitation:

8.0 lbs/hr total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average hourly total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.b** Emission Limitation:

40.0 lbs/day total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average daily total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.c** Emission Limitation:

0.2 lb/hr particulate matter

Applicable Compliance Method:

If required, compliance with the particulate mass emission limitation shall be in accordance with the method(s) and procedures required by OAC rule 3745-17-03(B)(10).

**1.d** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**1.e** Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

**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:** Production Line 3 (P903)  
**Activity Description:** Pultrusion Process Production Unit

#### 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>
Pultrusion process production unit Z003	OAC rule 3745-31-05 (PTI 16-980)	8.0 lbs/hr total organic materials* 40.0 lbs/day total organic materials* 0.2 lb/hr particulate matter
		*as defined under OAC 3745-21-01 -- also includes cleanup emissions
	OAC rule 3745-17-07	20% opacity as a 6-minute average, except as provided by rule, for stack emissions
		20% opacity as a 3-minute average, for fugitive emissions
	OAC rule 3745-17-08	See A.2.a below.
	OAC rule 3745-17-11	See A.2.b below.
	OAC rule 3745-21-07(G)	See A.2.b below.

##### 2. Additional Terms and Conditions

- 2.a The permittee shall operate and maintain hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control emissions so as to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- 2.b The emission limitation required by this rule is less stringent than the emission limitation as determined using best available technology.

##### II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation; except for the 5 to 7 minutes per hour that each cyclone is in its blow-back mode for the purpose of filter decaking. During this mode, venting of particulates to the outside of the equipment, or the facility, shall not occur.

### **III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis; but not during the periods of the blow-back operation.
2. The permittee shall record the following information on a daily basis for the line:
  - a. identification and quantity (pounds) of each resin batch received for processing;
  - b. styrene content (% by weight) of each batch;
  - c. styrene emissions from each batch, i.e., (% styrene) x (batch weight) x (0.04, AP-42 emission factor);
  - d. identification and net usage (pounds emissions) of each wiping solvent and organic material cleaning liquid employed (net usage shall be the difference between quantities employed and any returned for disposal/recycling, including solids);
  - e. production hours; and
  - f. daily (pounds) and average hourly emissions (pounds/hour) resulting from resin batch processing, and clean-up materials for the following pollutants:
    - i. organic material;
    - ii. volatile organic compounds; and
    - iii. styrene.

These calculations shall be based upon a mass balance approach.

### **IV. 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 baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each day during which the average hourly organic material emissions exceeded 8.0 pounds per hour, and the actual average hourly organic material emissions for each such day; and
  - b. an identification of each day during which the organic material emissions exceeded 40.0 pounds per day, and the actual organic material emissions for each such day.
3. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

### **V. Testing Requirements**

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

## **V. Testing Requirements (continued)**

**1.a** Emission Limitation:

8.0 lbs/hr total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average hourly total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.b** Emission Limitation:

40.0 lbs/day total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average daily total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.c** Emission Limitation:

0.2 lb/hr particulate matter

Applicable Compliance Method:

If required, compliance with the particulate mass emission limitation shall be in accordance with the method(s) and procedures required by OAC rule 3745-17-03(B)(10).

**1.d** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**1.e** Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

## **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:** Production Line 4 (P904)  
**Activity Description:** Pultrusion Process Production Unit

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- 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>
Pultrusion process production unit Z004	OAC rule 3745-31-05 (PTI 16-980)	8.0 lbs/hr total organic materials* 40.0 lbs/day total organic materials* 0.2 lb/hr particulate matter
		*as defined under OAC 3745-21-01 -- also includes cleanup emissions
	OAC rule 3745-17-07	20% opacity as a 6-minute average, except as provided by rule, for stack emissions
		20% opacity as a 3-minute average, for fugitive emissions
	OAC rule 3745-17-08	See A.2.a below.
	OAC rule 3745-17-11	See A.2.b below.
	OAC rule 3745-21-07(G)	See A.2.b below.

##### 2. Additional Terms and Conditions

- The permittee shall operate and maintain hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control emissions so as to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- The emission limitation required by this rule is less stringent than the emission limitation as determined using best available technology.

##### II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation; except for the 5 to 7 minutes per hour that each cyclone is in its blow-back mode for the purpose of filter decaking. During this mode, venting of particulates to the outside of the equipment, or the facility, shall not occur.

### **III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis; but not during the periods of the blow-back operation.
2. The permittee shall record the following information on a daily basis for the line:
  - a. identification and quantity (pounds) of each resin batch received for processing;
  - b. styrene content (% by weight) of each batch;
  - c. styrene emissions from each batch, i.e., (% styrene) x (batch weight) x (0.04, AP-42 emission factor);
  - d. identification and net usage (pounds emissions) of each wiping solvent and organic material cleaning liquid employed (net usage shall be the difference between quantities employed and any returned for disposal/recycling, including solids);
  - e. production hours; and
  - f. daily (pounds) and average hourly emissions (pounds/hour) resulting from resin batch processing, and clean-up materials for the following pollutants:
    - i. organic material;
    - ii. volatile organic compounds; and
    - iii. styrene.

These calculations shall be based upon a mass balance approach.

### **IV. 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 baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each day during which the average hourly organic material emissions exceeded 8.0 pounds per hour, and the actual average hourly organic material emissions for each such day; and
  - b. an identification of each day during which the organic material emissions exceeded 40.0 pounds per day, and the actual organic material emissions for each such day.
3. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

### **V. Testing Requirements**

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

**V. Testing Requirements (continued)**

**1.a** Emission Limitation:

8.0 lbs/hr total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average hourly total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.b** Emission Limitation:

40.0 lbs/day total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average daily total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.c** Emission Limitation:

0.2 lb/hr particulate matter

Applicable Compliance Method:

If required, compliance with the particulate mass emission limitation shall be in accordance with the method(s) and procedures required by OAC rule 3745-17-03(B)(10).

**1.d** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**1.e** Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

**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:** Production Line 5 (P905)  
**Activity Description:** Pultrusion Process Production Unit

#### 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>
Pultrusion process production unit Z005	OAC rule 3745-31-05 (PTI 16-980)	8.0 lbs/hr total organic materials* 40.0 lbs/day total organic materials* 0.2 lb/hr particulate matter
		*as defined under OAC 3745-21-01 -- also includes cleanup emissions
	OAC rule 3745-17-07	20% opacity as a 6-minute average, except as provided by rule, for stack emissions
		20% opacity as a 3-minute average, for fugitive emissions
	OAC rule 3745-17-08	See A.2.a below.
	OAC rule 3745-17-11	See A.2.b below.
	OAC rule 3745-21-07(G)	See A.2.b below.

##### 2. Additional Terms and Conditions

- 2.a The permittee shall operate and maintain hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control emissions so as to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- 2.b The emission limitation required by this rule is less stringent than the emission limitation as determined using best available technology.

##### II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation; except for the 5 to 7 minutes per hour that each cyclone is in its blow-back mode for the purpose of filter decaking. During this mode, venting of particulates to the outside of the equipment, or the facility, shall not occur.

### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis; but not during the periods of the blow-back operation.
2. The permittee shall record the following information on a daily basis for the line:
  - a. identification and quantity (pounds) of each resin batch received for processing;
  - b. styrene content (% by weight) of each batch;
  - c. styrene emissions from each batch, i.e., (% styrene) x (batch weight) x (0.04, AP-42 emission factor);
  - d. identification and net usage (pounds emissions) of each wiping solvent and organic material cleaning liquid employed (net usage shall be the difference between quantities employed and any returned for disposal/recycling, including solids);
  - e. production hours; and
  - f. daily (pounds) and average hourly emissions (pounds/hour) resulting from resin batch processing, and clean-up materials for the following pollutants:
    - i. organic material;
    - ii. volatile organic compounds; and
    - iii. styrene.

These calculations shall be based upon a mass balance approach.

### IV. 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 baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each day during which the average hourly organic material emissions exceeded 8.0 pounds per hour, and the actual average hourly organic material emissions for each such day; and
  - b. an identification of each day during which the organic material emissions exceeded 40.0 pounds per day, and the actual organic material emissions for each such day.
3. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

### V. Testing Requirements

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

## **V. Testing Requirements (continued)**

### **1.a** Emission Limitation:

8.0 lbs/hr total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average hourly total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

### **1.b** Emission Limitation:

40.0 lbs/day total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average daily total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

### **1.c** Emission Limitation:

0.2 lb/hr particulate matter

Applicable Compliance Method:

If required, compliance with the particulate mass emission limitation shall be in accordance with the method(s) and procedures required by OAC rule 3745-17-03(B)(10).

### **1.d** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

### **1.e** Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

## **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:** Production Line 6 (P906)  
**Activity Description:** Pultrusion Process Production Unit

#### 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>
Pultrusion process production unit Z006	OAC rule 3745-31-05 (PTI 16-980)	8.0 lbs/hr total organic materials* 40.0 lbs/day total organic materials* 0.2 lb/hr particulate matter
		*as defined under OAC 3745-21-01 -- also includes cleanup emissions
	OAC rule 3745-17-07	20% opacity as a 6-minute average, except as provided by rule, for stack emissions
		20% opacity as a 3-minute average, for fugitive emissions
	OAC rule 3745-17-08	See A.2.a below.
	OAC rule 3745-17-11	See A.2.b below.
	OAC rule 3745-21-07(G)	See A.2.b below.

##### 2. Additional Terms and Conditions

- 2.a The permittee shall operate and maintain hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control emissions so as to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- 2.b The emission limitation required by this rule is less stringent than the emission limitation as determined using best available technology.

##### II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation; except for the 5 to 7 minutes per hour that each cyclone is in its blow-back mode for the purpose of filter decaking. During this mode, venting of particulates to the outside of the equipment, or the facility, shall not occur.

### **III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis; but not during the periods of the blow-back operation.
2. The permittee shall record the following information on a daily basis for the line:
  - a. identification and quantity (pounds) of each resin batch received for processing;
  - b. styrene content (% by weight) of each batch;
  - c. styrene emissions from each batch, i.e., (% styrene) x (batch weight) x (0.04, AP-42 emission factor);
  - d. identification and net usage (pounds emissions) of each wiping solvent and organic material cleaning liquid employed (net usage shall be the difference between quantities employed and any returned for disposal/recycling, including solids);
  - e. production hours; and
  - f. daily (pounds) and average hourly emissions (pounds/hour) resulting from resin batch processing, and clean-up materials for the following pollutants:
    - i. organic material;
    - ii. volatile organic compounds; and
    - iii. styrene.

These calculations shall be based upon a mass balance approach.

### **IV. 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 baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each day during which the average hourly organic material emissions exceeded 8.0 pounds per hour, and the actual average hourly organic material emissions for each such day; and
  - b. an identification of each day during which the organic material emissions exceeded 40.0 pounds per day, and the actual organic material emissions for each such day.
3. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

### **V. Testing Requirements**

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

## **V. Testing Requirements (continued)**

### **1.a** Emission Limitation:

8.0 lbs/hr total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average hourly total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

### **1.b** Emission Limitation:

40.0 lbs/day total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average daily total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

### **1.c** Emission Limitation:

0.2 lb/hr particulate matter

Applicable Compliance Method:

If required, compliance with the particulate mass emission limitation shall be in accordance with the method(s) and procedures required by OAC rule 3745-17-03(B)(10).

### **1.d** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

### **1.e** Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

## **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:** Production Line 7 (P907)  
**Activity Description:** Pultrusion Process Production Unit

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- 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>
Pultrusion process production unit Z007	OAC rule 3745-31-05 (PTI 16-980)	8.0 lbs/hr total organic materials* 40.0 lbs/day total organic materials* 0.2 lb/hr particulate matter
		*as defined under OAC 3745-21-01 -- also includes cleanup emissions
	OAC rule 3745-17-07	20% opacity as a 6-minute average, except as provided by rule, for stack emissions
		20% opacity as a 3-minute average, for fugitive emissions
	OAC rule 3745-17-08	See A.2.a below.
	OAC rule 3745-17-11	See A.2.b below.
	OAC rule 3745-21-07(G)	See A.2.b below.

##### 2. Additional Terms and Conditions

- The permittee shall operate and maintain hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control emissions so as to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- The emission limitation required by this rule is less stringent than the emission limitation as determined using best available technology.

##### II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation; except for the 5 to 7 minutes per hour that each cyclone is in its blow-back mode for the purpose of filter decaking. During this mode, venting of particulates to the outside of the equipment, or the facility, shall not occur.

### **III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis; but not during the periods of the blow-back operation.
2. The permittee shall record the following information on a daily basis for the line:
  - a. identification and quantity (pounds) of each resin batch received for processing;
  - b. styrene content (% by weight) of each batch;
  - c. styrene emissions from each batch, i.e., (% styrene) x (batch weight) x (0.04, AP-42 emission factor);
  - d. identification and net usage (pounds emissions) of each wiping solvent and organic material cleaning liquid employed (net usage shall be the difference between quantities employed and any returned for disposal/recycling, including solids);
  - e. production hours; and
  - f. daily (pounds) and average hourly emissions (pounds/hour) resulting from resin batch processing, and clean-up materials for the following pollutants:
    - i. organic material;
    - ii. volatile organic compounds; and
    - iii. styrene.

These calculations shall be based upon a mass balance approach.

### **IV. 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 baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each day during which the average hourly organic material emissions exceeded 8.0 pounds per hour, and the actual average hourly organic material emissions for each such day; and
  - b. an identification of each day during which the organic material emissions exceeded 40.0 pounds per day, and the actual organic material emissions for each such day.
3. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

### **V. Testing Requirements**

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

## **V. Testing Requirements (continued)**

**1.a** Emission Limitation:

8.0 lbs/hr total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average hourly total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.b** Emission Limitation:

40.0 lbs/day total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average daily total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.c** Emission Limitation:

0.2 lb/hr particulate matter

Applicable Compliance Method:

If required, compliance with the particulate mass emission limitation shall be in accordance with the method(s) and procedures required by OAC rule 3745-17-03(B)(10).

**1.d** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**1.e** Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

## **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:** Production Line 8 (P908)  
**Activity Description:** Pultrusion Process Production Unit

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- 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>
Pultrusion process production unit Z008	OAC rule 3745-31-05 (PTI 16-980)	8.0 lbs/hr total organic materials* 40.0 lbs/day total organic materials* 0.2 lb/hr particulate matter
		*as defined under OAC 3745-21-01 -- also includes cleanup emissions
	OAC rule 3745-17-07	20% opacity as a 6-minute average, except as provided by rule, for stack emissions
		20% opacity as a 3-minute average, for fugitive emissions
	OAC rule 3745-17-08	See A.2.a below.
	OAC rule 3745-17-11	See A.2.b below.
	OAC rule 3745-21-07(G)	See A.2.b below.

##### 2. Additional Terms and Conditions

- The permittee shall operate and maintain hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control emissions so as to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- The emission limitation required by this rule is less stringent than the emission limitation as determined using best available technology.

##### II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation; except for the 5 to 7 minutes per hour that each cyclone is in its blow-back mode for the purpose of filter decaking. During this mode, venting of particulates to the outside of the equipment, or the facility, shall not occur.

### **III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis; but not during the periods of the blow-back operation.
2. The permittee shall record the following information on a daily basis for the line:
  - a. identification and quantity (pounds) of each resin batch received for processing;
  - b. styrene content (% by weight) of each batch;
  - c. styrene emissions from each batch, i.e., (% styrene) x (batch weight) x (0.04, AP-42 emission factor);
  - d. identification and net usage (pounds emissions) of each wiping solvent and organic material cleaning liquid employed (net usage shall be the difference between quantities employed and any returned for disposal/recycling, including solids);
  - e. production hours; and
  - f. daily (pounds) and average hourly emissions (pounds/hour) resulting from resin batch processing, and clean-up materials for the following pollutants:
    - i. organic material;
    - ii. volatile organic compounds; and
    - iii. styrene.

These calculations shall be based upon a mass balance approach.

### **IV. 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 baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each day during which the average hourly organic material emissions exceeded 8.0 pounds per hour, and the actual average hourly organic material emissions for each such day; and
  - b. an identification of each day during which the organic material emissions exceeded 40.0 pounds per day, and the actual organic material emissions for each such day.
3. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

### **V. Testing Requirements**

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

## **V. Testing Requirements (continued)**

**1.a** Emission Limitation:

8.0 lbs/hr total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average hourly total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.b** Emission Limitation:

40.0 lbs/day total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average daily total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.c** Emission Limitation:

0.2 lb/hr particulate matter

Applicable Compliance Method:

If required, compliance with the particulate mass emission limitation shall be in accordance with the method(s) and procedures required by OAC rule 3745-17-03(B)(10).

**1.d** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**1.e** Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

## **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:** Production Line 9 (P909)  
**Activity Description:** Pultrusion Process Production Unit

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- 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>
Pultrusion process production unit Z009	OAC rule 3745-31-05 (PTI 16-980)	8.0 lbs/hr total organic materials* 40.0 lbs/day total organic materials* 0.2 lb/hr particulate matter
		*as defined under OAC 3745-21-01 -- also includes cleanup emissions
	OAC rule 3745-17-07	20% opacity as a 6-minute average, except as provided by rule, for stack emissions
		20% opacity as a 3-minute average, for fugitive emissions
	OAC rule 3745-17-08	See A.2.a below.
	OAC rule 3745-17-11	See A.2.b below.
	OAC rule 3745-21-07(G)	See A.2.b below.

##### 2. Additional Terms and Conditions

- The permittee shall operate and maintain hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control emissions so as to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- The emission limitation required by this rule is less stringent than the emission limitation as determined using best available technology.

##### II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation; except for the 5 to 7 minutes per hour that each cyclone is in its blow-back mode for the purpose of filter decaking. During this mode, venting of particulates to the outside of the equipment, or the facility, shall not occur.

### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis; but not during the periods of the blow-back operation.
2. The permittee shall record the following information on a daily basis for the line:
  - a. identification and quantity (pounds) of each resin batch received for processing;
  - b. styrene content (% by weight) of each batch;
  - c. styrene emissions from each batch, i.e., (% styrene) x (batch weight) x (0.04, AP-42 emission factor);
  - d. identification and net usage (pounds emissions) of each wiping solvent and organic material cleaning liquid employed (net usage shall be the difference between quantities employed and any returned for disposal/recycling, including solids);
  - e. production hours; and
  - f. daily (pounds) and average hourly emissions (pounds/hour) resulting from resin batch processing, and clean-up materials for the following pollutants:
    - i. organic material;
    - ii. volatile organic compounds; and
    - iii. styrene.

These calculations shall be based upon a mass balance approach.

### IV. 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 baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each day during which the average hourly organic material emissions exceeded 8.0 pounds per hour, and the actual average hourly organic material emissions for each such day; and
  - b. an identification of each day during which the organic material emissions exceeded 40.0 pounds per day, and the actual organic material emissions for each such day.
3. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

### V. Testing Requirements

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

## **V. Testing Requirements (continued)**

**1.a** Emission Limitation:

8.0 lbs/hr total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average hourly total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.b** Emission Limitation:

40.0 lbs/day total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average daily total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.c** Emission Limitation:

0.2 lb/hr particulate matter

Applicable Compliance Method:

If required, compliance with the particulate mass emission limitation shall be in accordance with the method(s) and procedures required by OAC rule 3745-17-03(B)(10).

**1.d** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**1.e** Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

## **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:** Production Line 10 (P910)  
**Activity Description:** Pultrusion Process Production Unit

#### 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>
Pultrusion process production unit Z010	OAC rule 3745-31-05 (PTI 16-980)	8.0 lbs/hr total organic materials* 40.0 lbs/day total organic materials* 0.2 lb/hr particulate matter
		*as defined under OAC 3745-21-01 -- also includes cleanup emissions
	OAC rule 3745-17-07	20% opacity as a 6-minute average, except as provided by rule, for stack emissions
		20% opacity as a 3-minute average, for fugitive emissions
	OAC rule 3745-17-08	See A.2.a below.
	OAC rule 3745-17-11	See A.2.b below.
	OAC rule 3745-21-07(G)	See A.2.b below.

##### 2. Additional Terms and Conditions

- 2.a The permittee shall operate and maintain hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control emissions so as to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- 2.b The emission limitation required by this rule is less stringent than the emission limitation as determined using best available technology.

##### II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation; except for the 5 to 7 minutes per hour that each cyclone is in its blow-back mode for the purpose of filter decaking. During this mode, venting of particulates to the outside of the equipment, or the facility, shall not occur.

### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis; but not during the periods of the blow-back operation.
2. The permittee shall record the following information on a daily basis for the line:
  - a. identification and quantity (pounds) of each resin batch received for processing;
  - b. styrene content (% by weight) of each batch;
  - c. styrene emissions from each batch, i.e., (% styrene) x (batch weight) x (0.04, AP-42 emission factor);
  - d. identification and net usage (pounds emissions) of each wiping solvent and organic material cleaning liquid employed (net usage shall be the difference between quantities employed and any returned for disposal/recycling, including solids);
  - e. production hours; and
  - f. daily (pounds) and average hourly emissions (pounds/hour) resulting from resin batch processing, and clean-up materials for the following pollutants:
    - i. organic material;
    - ii. volatile organic compounds; and
    - iii. styrene.

These calculations shall be based upon a mass balance approach.

### IV. 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 baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each day during which the average hourly organic material emissions exceeded 8.0 pounds per hour, and the actual average hourly organic material emissions for each such day; and
  - b. an identification of each day during which the organic material emissions exceeded 40.0 pounds per day, and the actual organic material emissions for each such day.
3. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

### V. Testing Requirements

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

## **V. Testing Requirements (continued)**

**1.a** Emission Limitation:

8.0 lbs/hr total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average hourly total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.b** Emission Limitation:

40.0 lbs/day total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average daily total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.c** Emission Limitation:

0.2 lb/hr particulate matter

Applicable Compliance Method:

If required, compliance with the particulate mass emission limitation shall be in accordance with the method(s) and procedures required by OAC rule 3745-17-03(B)(10).

**1.d** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**1.e** Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

## **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:** Production Line 11 (P911)  
**Activity Description:** Pultrusion Process Production Unit

#### 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>
Pultrusion process production unit Z011	OAC rule 3745-31-05 (PTI 16-980)	8.0 lbs/hr total organic materials* 40.0 lbs/day total organic materials* 0.2 lb/hr particulate matter
		*as defined under OAC 3745-21-01 -- also includes cleanup emissions
	OAC rule 3745-17-07	20% opacity as a 6-minute average, except as provided by rule, for stack emissions
		20% opacity as a 3-minute average, for fugitive emissions
	OAC rule 3745-17-08	See A.2.a below.
	OAC rule 3745-17-11	See A.2.b below.
	OAC rule 3745-21-07(G)	See A.2.b below.

##### 2. Additional Terms and Conditions

- 2.a The permittee shall operate and maintain hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control emissions so as to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- 2.b The emission limitation required by this rule is less stringent than the emission limitation as determined using best available technology.

##### II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation; except for the 5 to 7 minutes per hour that each cyclone is in its blow-back mode for the purpose of filter decaking. During this mode, venting of particulates to the outside of the equipment, or the facility, shall not occur.

### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis; but not during the periods of the blow-back operation.
2. The permittee shall record the following information on a daily basis for the line:
  - a. identification and quantity (pounds) of each resin batch received for processing;
  - b. styrene content (% by weight) of each batch;
  - c. styrene emissions from each batch, i.e., (% styrene) x (batch weight) x (0.04, AP-42 emission factor);
  - d. identification and net usage (pounds emissions) of each wiping solvent and organic material cleaning liquid employed (net usage shall be the difference between quantities employed and any returned for disposal/recycling, including solids);
  - e. production hours; and
  - f. daily (pounds) and average hourly emissions (pounds/hour) resulting from resin batch processing, and clean-up materials for the following pollutants:
    - i. organic material;
    - ii. volatile organic compounds; and
    - iii. styrene.

These calculations shall be based upon a mass balance approach.

### IV. 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 baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each day during which the average hourly organic material emissions exceeded 8.0 pounds per hour, and the actual average hourly organic material emissions for each such day; and
  - b. an identification of each day during which the organic material emissions exceeded 40.0 pounds per day, and the actual organic material emissions for each such day.
3. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

### V. Testing Requirements

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

## **V. Testing Requirements (continued)**

**1.a** Emission Limitation:

8.0 lbs/hr total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average hourly total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.b** Emission Limitation:

40.0 lbs/day total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average daily total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.c** Emission Limitation:

0.2 lb/hr particulate matter

Applicable Compliance Method:

If required, compliance with the particulate mass emission limitation shall be in accordance with the method(s) and procedures required by OAC rule 3745-17-03(B)(10).

**1.d** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**1.e** Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

## **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:** Production Line 12 (P912)  
**Activity Description:** Pultrusion Process Production Unit

#### 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>
Pultrusion process production unit Z012	OAC rule 3745-31-05 (PTI 16-980)	8.0 lbs/hr total organic materials* 40.0 lbs/day total organic materials* 0.2 lb/hr particulate matter
		*as defined under OAC 3745-21-01 -- also includes cleanup emissions
	OAC rule 3745-17-07	20% opacity as a 6-minute average, except as provided by rule, for stack emissions
		20% opacity as a 3-minute average, for fugitive emissions
	OAC rule 3745-17-08	See A.2.a below.
	OAC rule 3745-17-11	See A.2.b below.
	OAC rule 3745-21-07(G)	See A.2.b below.

##### 2. Additional Terms and Conditions

- 2.a The permittee shall operate and maintain hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control emissions so as to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- 2.b The emission limitation required by this rule is less stringent than the emission limitation as determined using best available technology.

##### II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation; except for the 5 to 7 minutes per hour that each cyclone is in its blow-back mode for the purpose of filter decaking. During this mode, venting of particulates to the outside of the equipment, or the facility, shall not occur.

### **III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis; but not during the periods of the blow-back operation.
2. The permittee shall record the following information on a daily basis for the line:
  - a. identification and quantity (pounds) of each resin batch received for processing;
  - b. styrene content (% by weight) of each batch;
  - c. styrene emissions from each batch, i.e., (% styrene) x (batch weight) x (0.04, AP-42 emission factor);
  - d. identification and net usage (pounds emissions) of each wiping solvent and organic material cleaning liquid employed (net usage shall be the difference between quantities employed and any returned for disposal/recycling, including solids);
  - e. production hours; and
  - f. daily (pounds) and average hourly emissions (pounds/hour) resulting from resin batch processing, and clean-up materials for the following pollutants:
    - i. organic material;
    - ii. volatile organic compounds; and
    - iii. styrene.

These calculations shall be based upon a mass balance approach.

### **IV. 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 baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each day during which the average hourly organic material emissions exceeded 8.0 pounds per hour, and the actual average hourly organic material emissions for each such day; and
  - b. an identification of each day during which the organic material emissions exceeded 40.0 pounds per day, and the actual organic material emissions for each such day.
3. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

### **V. Testing Requirements**

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

**V. Testing Requirements (continued)**

**1.a** Emission Limitation:

8.0 lbs/hr total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average hourly total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.b** Emission Limitation:

40.0 lbs/day total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average daily total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.c** Emission Limitation:

0.2 lb/hr particulate matter

Applicable Compliance Method:

If required, compliance with the particulate mass emission limitation shall be in accordance with the method(s) and procedures required by OAC rule 3745-17-03(B)(10).

**1.d** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**1.e** Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

**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:** Production Line 13 (P913)  
**Activity Description:** Pultrusion Process Production Unit

#### 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>
Pultrusion process production unit Z013	OAC rule 3745-31-05 (PTI 16-980)	8.0 lbs/hr total organic materials* 40.0 lbs/day total organic materials* 0.2 lb/hr particulate matter
		*as defined under OAC 3745-21-01 -- also includes cleanup emissions
	OAC rule 3745-17-07	20% opacity as a 6-minute average, except as provided by rule, for stack emissions
		20% opacity as a 3-minute average, for fugitive emissions
	OAC rule 3745-17-08	See A.2.a below.
	OAC rule 3745-17-11	See A.2.b below.
	OAC rule 3745-21-07(G)	See A.2.b below.

##### 2. Additional Terms and Conditions

- 2.a The permittee shall operate and maintain hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control emissions so as to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- 2.b The emission limitation required by this rule is less stringent than the emission limitation as determined using best available technology.

##### II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation; except for the 5 to 7 minutes per hour that each cyclone is in its blow-back mode for the purpose of filter decaking. During this mode, venting of particulates to the outside of the equipment, or the facility, shall not occur.

### **III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis; but not during the periods of the blow-back operation.
2. The permittee shall record the following information on a daily basis for the line:
  - a. identification and quantity (pounds) of each resin batch received for processing;
  - b. styrene content (% by weight) of each batch;
  - c. styrene emissions from each batch, i.e., (% styrene) x (batch weight) x (0.04, AP-42 emission factor);
  - d. identification and net usage (pounds emissions) of each wiping solvent and organic material cleaning liquid employed (net usage shall be the difference between quantities employed and any returned for disposal/recycling, including solids);
  - e. production hours; and
  - f. daily (pounds) and average hourly emissions (pounds/hour) resulting from resin batch processing, and clean-up materials for the following pollutants:
    - i. organic material;
    - ii. volatile organic compounds; and
    - iii. styrene.

These calculations shall be based upon a mass balance approach.

### **IV. 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 baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each day during which the average hourly organic material emissions exceeded 8.0 pounds per hour, and the actual average hourly organic material emissions for each such day; and
  - b. an identification of each day during which the organic material emissions exceeded 40.0 pounds per day, and the actual organic material emissions for each such day.
3. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

### **V. Testing Requirements**

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

## **V. Testing Requirements (continued)**

**1.a** Emission Limitation:

8.0 lbs/hr total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average hourly total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.b** Emission Limitation:

40.0 lbs/day total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average daily total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.c** Emission Limitation:

0.2 lb/hr particulate matter

Applicable Compliance Method:

If required, compliance with the particulate mass emission limitation shall be in accordance with the method(s) and procedures required by OAC rule 3745-17-03(B)(10).

**1.d** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**1.e** Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

## **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:** Production Line 14 (P914)  
**Activity Description:** Pultrusion Process Production Unit

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- 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>
Pultrusion process production unit Z014	OAC rule 3745-31-05 (PTI 16-980)	8.0 lbs/hr total organic materials* 40.0 lbs/day total organic materials* 0.2 lb/hr particulate matter
		*as defined under OAC 3745-21-01 -- also includes cleanup emissions
	OAC rule 3745-17-07	20% opacity as a 6-minute average, except as provided by rule, for stack emissions
		20% opacity as a 3-minute average, for fugitive emissions
	OAC rule 3745-17-08	See A.2.a below.
	OAC rule 3745-17-11	See A.2.b below.
	OAC rule 3745-21-07(G)	See A.2.b below.

##### 2. Additional Terms and Conditions

- The permittee shall operate and maintain hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control emissions so as to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- The emission limitation required by this rule is less stringent than the emission limitation as determined using best available technology.

##### II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation; except for the 5 to 7 minutes per hour that each cyclone is in its blow-back mode for the purpose of filter decaking. During this mode, venting of particulates to the outside of the equipment, or the facility, shall not occur.

### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis; but not during the periods of the blow-back operation.
2. The permittee shall record the following information on a daily basis for the line:
  - a. identification and quantity (pounds) of each resin batch received for processing;
  - b. styrene content (% by weight) of each batch;
  - c. styrene emissions from each batch, i.e., (% styrene) x (batch weight) x (0.04, AP-42 emission factor);
  - d. identification and net usage (pounds emissions) of each wiping solvent and organic material cleaning liquid employed (net usage shall be the difference between quantities employed and any returned for disposal/recycling, including solids);
  - e. production hours; and
  - f. daily (pounds) and average hourly emissions (pounds/hour) resulting from resin batch processing, and clean-up materials for the following pollutants:
    - i. organic material;
    - ii. volatile organic compounds; and
    - iii. styrene.

These calculations shall be based upon a mass balance approach.

### IV. 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 baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each day during which the average hourly organic material emissions exceeded 8.0 pounds per hour, and the actual average hourly organic material emissions for each such day; and
  - b. an identification of each day during which the organic material emissions exceeded 40.0 pounds per day, and the actual organic material emissions for each such day.
3. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

### V. Testing Requirements

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

## **V. Testing Requirements (continued)**

**1.a** Emission Limitation:

8.0 lbs/hr total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average hourly total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.b** Emission Limitation:

40.0 lbs/day total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average daily total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.c** Emission Limitation:

0.2 lb/hr particulate matter

Applicable Compliance Method:

If required, compliance with the particulate mass emission limitation shall be in accordance with the method(s) and procedures required by OAC rule 3745-17-03(B)(10).

**1.d** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**1.e** Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

## **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:** Production Line 15 (P915)  
**Activity Description:** Pultrusion Process Production Unit

#### 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>
Pultrusion process production unit Z015	OAC rule 3745-31-05 (PTI 16-980)	8.0 lbs/hr total organic materials* 40.0 lbs/day total organic materials* 0.2 lb/hr particulate matter
		*as defined under OAC 3745-21-01 -- also includes cleanup emissions
	OAC rule 3745-17-07	20% opacity as a 6-minute average, except as provided by rule, for stack emissions
		20% opacity as a 3-minute average, for fugitive emissions
	OAC rule 3745-17-08	See A.2.a below.
	OAC rule 3745-17-11	See A.2.b below.
	OAC rule 3745-21-07(G)	See A.2.b below.

##### 2. Additional Terms and Conditions

- 2.a The permittee shall operate and maintain hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control emissions so as to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- 2.b The emission limitation required by this rule is less stringent than the emission limitation as determined using best available technology.

##### II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation; except for the 5 to 7 minutes per hour that each cyclone is in its blow-back mode for the purpose of filter decaking. During this mode, venting of particulates to the outside of the equipment, or the facility, shall not occur.

### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis; but not during the periods of the blow-back operation.
2. The permittee shall record the following information on a daily basis for the line:
  - a. identification and quantity (pounds) of each resin batch received for processing;
  - b. styrene content (% by weight) of each batch;
  - c. styrene emissions from each batch, i.e., (% styrene) x (batch weight) x (0.04, AP-42 emission factor);
  - d. identification and net usage (pounds emissions) of each wiping solvent and organic material cleaning liquid employed (net usage shall be the difference between quantities employed and any returned for disposal/recycling, including solids);
  - e. production hours; and
  - f. daily (pounds) and average hourly emissions (pounds/hour) resulting from resin batch processing, and clean-up materials for the following pollutants:
    - i. organic material;
    - ii. volatile organic compounds; and
    - iii. styrene.

These calculations shall be based upon a mass balance approach.

### IV. 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 baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each day during which the average hourly organic material emissions exceeded 8.0 pounds per hour, and the actual average hourly organic material emissions for each such day; and
  - b. an identification of each day during which the organic material emissions exceeded 40.0 pounds per day, and the actual organic material emissions for each such day.
3. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

### V. Testing Requirements

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

## **V. Testing Requirements (continued)**

**1.a** Emission Limitation:

8.0 lbs/hr total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average hourly total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.b** Emission Limitation:

40.0 lbs/day total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average daily total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.c** Emission Limitation:

0.2 lb/hr particulate matter

Applicable Compliance Method:

If required, compliance with the particulate mass emission limitation shall be in accordance with the method(s) and procedures required by OAC rule 3745-17-03(B)(10).

**1.d** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**1.e** Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

## **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:** T-wood Robotics (P917)  
**Activity Description:** Two Large Fabrication Machines

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- 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>
Thermwood fabrication machines (2), Z030	OAC rule 3745-31-05 (PTI 16-980)	20.0 lbs/day total organic materials* 0.2 lb/hr particulate matter See A.I.2.a below.
		*as defined under OAC 3745-21-01 -- also includes cleanup emissions
	OAC rule 3745-17-07	20% opacity as a 6-minute average, except as provided by rule, for stack emissions
		20% opacity as a 3-minute average, for fugitive emissions
	OAC rule 3745-17-08	See A.I.2.b below.
	OAC rule 3745-17-11	See A.I.2.c below.
	OAC rule 3745-21-07(G)	See A.I.2.c below.

##### 2. Additional Terms and Conditions

- The permittee shall not employ any photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5).
- The permittee shall operate and maintain hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control emissions so as to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- The emission limitation required by this rule is less stringent than the emission limitation as determined using best available technology.

##### II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation; except for the 5 to 7 minutes per hour that each cyclone is in its blow-back mode for the purpose of filter decaking. During this mode, venting of particulates to the outside of the equipment, or the facility, shall not occur.

### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis; but not during the periods of the blow-back operation.
2. The permittee shall record the following information on a daily basis for the line:
  - a. identification and net usage (pounds emissions) of each wiping solvent and organic material cleaning liquid employed (net usage shall be the difference between quantities employed and any returned for disposal/recycling, including solids);
  - b. production hours; and
  - c. daily (pounds) and average hourly emissions (pounds/hour) resulting from wiping solvents and organic material cleaning liquids for the following pollutants:
    - i. organic material; and
    - ii. volatile organic compounds.

These calculations shall be based upon a mass balance approach.

### IV. 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 baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include an identification of each day during which the organic material emissions exceeded 20.0 pounds per day, and the actual organic material emissions for each such day.
3. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

### V. Testing Requirements

1. Compliance with the 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:

20.0 lbs/day total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average daily total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.b** Emission Limitation:

0.2 lb/hr particulate matter

Applicable Compliance Method:

If required, compliance with the particulate mass emission limitation shall be in accordance with the method(s) and procedures required by OAC rule 3745-17-03(B)(10).

**V. Testing Requirements (continued)**

**1.c** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**1.d** Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

**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:** Sill Robotics (P918)  
**Activity Description:** One Large Fabricaion Machines

### 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>
Still fabrication machines, Z031	OAC rule 3745-31-05 (PTI 16-980)	20.0 lbs/day total organic materials* 0.2 lb/hr particulate matter See A.I.2.a below.
		*as defined under OAC 3745-21-01 -- also includes cleanup emissions
	OAC rule 3745-17-07	20% opacity as a 6-minute average, except as provided by rule, for stack emissions
		20% opacity as a 3-minute average, for fugitive emissions
	OAC rule 3745-17-08	See A.I.2.b below.
	OAC rule 3745-17-11	See A.I.2.c below.
	OAC rule 3745-21-07(G)	See A.I.2.c below.

#### 2. Additional Terms and Conditions

- 2.a The permittee shall not employ any photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5).
- 2.b The permittee shall operate and maintain hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control emissions so as to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- 2.c The emission limitation required by this rule is less stringent than the emission limitation as determined using best available technology.

#### II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation; except for the 5 to 7 minutes per hour that each cyclone is in its blow-back mode for the purpose of filter decaking. During this mode, venting of particulates to the outside of the equipment, or the facility, shall not occur.

### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis; but not during the periods of the blow-back operation.
2. The permittee shall record the following information on a daily basis for the line:
  - a. identification and net usage (pounds emissions) of each wiping solvent and organic material cleaning liquid employed (net usage shall be the difference between quantities employed and any returned for disposal/recycling, including solids);
  - b. production hours; and
  - c. daily (pounds) and average hourly emissions (pounds/hour) resulting from wiping solvents and organic material cleaning liquids for the following pollutants:
    - i. organic material; and
    - ii. volatile organic compounds.

These calculations shall be based upon a mass balance approach.

### IV. 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 baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include an identification of each day during which the organic material emissions exceeded 20.0 pounds per day, and the actual organic material emissions for each such day.
3. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

### V. Testing Requirements

1. Compliance with the 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:

20.0 lbs/day total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average daily total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.b** Emission Limitation:

0.2 lb/hr particulate matter

Applicable Compliance Method:

If required, compliance with the particulate mass emission limitation shall be in accordance with the method(s) and procedures required by OAC rule 3745-17-03(B)(10).

**V. Testing Requirements (continued)**

**1.c** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**1.d** Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

**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:** General Fab. Machs. (P919)

**Activity Description:** A Number of General Fabrication Machines - manual and automatic

#### 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>
Fabrication machines, Z032	OAC rule 3745-31-05 (PTI 16-980)	20.0 lbs/day total organic materials* 0.2 lb/hr particulate matter See A.I.2.a below.
		*as defined under OAC 3745-21-01 -- also includes cleanup emissions
	OAC rule 3745-17-07	20% opacity as a 6-minute average, except as provided by rule, for stack emissions
		20% opacity as a 3-minute average, for fugitive emissions
	OAC rule 3745-17-08	See A.I.2.b below.
	OAC rule 3745-17-11	See A.I.2.c below.
	OAC rule 3745-21-07(G)	See A.I.2.c below.

##### 2. Additional Terms and Conditions

- 2.a The permittee shall not employ any photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5).
- 2.b The permittee shall operate and maintain hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control emissions so as to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- 2.c The emission limitation required by this rule is less stringent than the emission limitation as determined using best available technology.

##### II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation; except for the 5 to 7 minutes per hour that each cyclone is in its blow-back mode for the purpose of filter decaking. During this mode, venting of particulates to the outside of the equipment, or the facility, shall not occur.

### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis; but not during the periods of the blow-back operation.
2. The permittee shall record the following information on a daily basis for the line:
  - a. identification and net usage (pounds emissions) of each wiping solvent and organic material cleaning liquid employed (net usage shall be the difference between quantities employed and any returned for disposal/recycling, including solids);
  - b. production hours; and
  - c. daily (pounds) and average hourly emissions (pounds/hour) resulting from wiping solvents and organic material cleaning liquids for the following pollutants:
    - i. organic material; and
    - ii. volatile organic compounds.

These calculations shall be based upon a mass balance approach.

### IV. 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 baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include an identification of each day during which the organic material emissions exceeded 20.0 pounds per day, and the actual organic material emissions for each such day.
3. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

### V. Testing Requirements

1. Compliance with the 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:

20.0 lbs/day total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average daily total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.b** Emission Limitation:

0.2 lb/hr particulate matter

Applicable Compliance Method:

If required, compliance with the particulate mass emission limitation shall be in accordance with the method(s) and procedures required by OAC rule 3745-17-03(B)(10).

**V. Testing Requirements (continued)**

**1.c** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**1.d** Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

**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:** Production Line 16 (P922)  
**Activity Description:** Pultrusion Process Production Unit

#### 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>
Pultrusion process production unit Z016	OAC rule 3745-31-05 (PTI 16-980)	8.0 lbs/hr total organic materials* 40.0 lbs/day total organic materials* 0.2 lb/hr particulate matter
		*as defined under OAC 3745-21-01 -- also includes cleanup emissions
	OAC rule 3745-17-07	20% opacity as a 6-minute average, except as provided by rule, for stack emissions
		20% opacity as a 3-minute average, for fugitive emissions
	OAC rule 3745-17-08	See A.2.a below.
	OAC rule 3745-17-11	See A.2.b below.
	OAC rule 3745-21-07(G)	See A.2.b below.

##### 2. Additional Terms and Conditions

- 2.a The permittee shall operate and maintain hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control emissions so as to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- 2.b The emission limitation required by this rule is less stringent than the emission limitation as determined using best available technology.

##### II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation; except for the 5 to 7 minutes per hour that each cyclone is in its blow-back mode for the purpose of filter decaking. During this mode, venting of particulates to the outside of the equipment, or the facility, shall not occur.

### **III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis; but not during the periods of the blow-back operation.
2. The permittee shall record the following information on a daily basis for the line:
  - a. identification and quantity (pounds) of each resin batch received for processing;
  - b. styrene content (% by weight) of each batch;
  - c. styrene emissions from each batch, i.e., (% styrene) x (batch weight) x (0.04, AP-42 emission factor);
  - d. identification and net usage (pounds emissions) of each wiping solvent and organic material cleaning liquid employed (net usage shall be the difference between quantities employed and any returned for disposal/recycling, including solids);
  - e. production hours; and
  - f. daily (pounds) and average hourly emissions (pounds/hour) resulting from resin batch processing, and clean-up materials for the following pollutants:
    - i. organic material;
    - ii. volatile organic compounds; and
    - iii. styrene.

These calculations shall be based upon a mass balance approach.

### **IV. 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 baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each day during which the average hourly organic material emissions exceeded 8.0 pounds per hour, and the actual average hourly organic material emissions for each such day; and
  - b. an identification of each day during which the organic material emissions exceeded 40.0 pounds per day, and the actual organic material emissions for each such day.
3. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

### **V. Testing Requirements**

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

**V. Testing Requirements (continued)**

**1.a** Emission Limitation:

8.0 lbs/hr total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average hourly total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.b** Emission Limitation:

40.0 lbs/day total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average daily total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.c** Emission Limitation:

0.2 lb/hr particulate matter

Applicable Compliance Method:

If required, compliance with the particulate mass emission limitation shall be in accordance with the method(s) and procedures required by OAC rule 3745-17-03(B)(10).

**1.d** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**1.e** Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

**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:** Production Line 17 (P923)  
**Activity Description:** Pultrusion Process Production Unit

#### 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>
Pultrusion process production unit Z017	OAC rule 3745-31-05 (PTI 16-980)	8.0 lbs/hr total organic materials* 40.0 lbs/day total organic materials* 0.2 lb/hr particulate matter
		*as defined under OAC 3745-21-01 -- also includes cleanup emissions
	OAC rule 3745-17-07	20% opacity as a 6-minute average, except as provided by rule, for stack emissions
		20% opacity as a 3-minute average, for fugitive emissions
	OAC rule 3745-17-08	See A.2.a below.
	OAC rule 3745-17-11	See A.2.b below.
	OAC rule 3745-21-07(G)	See A.2.b below.

##### 2. Additional Terms and Conditions

- 2.a The permittee shall operate and maintain hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control emissions so as to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- 2.b The emission limitation required by this rule is less stringent than the emission limitation as determined using best available technology.

##### II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation; except for the 5 to 7 minutes per hour that each cyclone is in its blow-back mode for the purpose of filter decaking. During this mode, venting of particulates to the outside of the equipment, or the facility, shall not occur.

### **III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis; but not during the periods of the blow-back operation.
2. The permittee shall record the following information on a daily basis for the line:
  - a. identification and quantity (pounds) of each resin batch received for processing;
  - b. styrene content (% by weight) of each batch;
  - c. styrene emissions from each batch, i.e., (% styrene) x (batch weight) x (0.04, AP-42 emission factor);
  - d. identification and net usage (pounds emissions) of each wiping solvent and organic material cleaning liquid employed (net usage shall be the difference between quantities employed and any returned for disposal/recycling, including solids);
  - e. production hours; and
  - f. daily (pounds) and average hourly emissions (pounds/hour) resulting from resin batch processing, and clean-up materials for the following pollutants:
    - i. organic material;
    - ii. volatile organic compounds; and
    - iii. styrene.

These calculations shall be based upon a mass balance approach.

### **IV. 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 baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each day during which the average hourly organic material emissions exceeded 8.0 pounds per hour, and the actual average hourly organic material emissions for each such day; and
  - b. an identification of each day during which the organic material emissions exceeded 40.0 pounds per day, and the actual organic material emissions for each such day.
3. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

### **V. Testing Requirements**

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

## **V. Testing Requirements (continued)**

### **1.a** Emission Limitation:

8.0 lbs/hr total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average hourly total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

### **1.b** Emission Limitation:

40.0 lbs/day total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average daily total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

### **1.c** Emission Limitation:

0.2 lb/hr particulate matter

Applicable Compliance Method:

If required, compliance with the particulate mass emission limitation shall be in accordance with the method(s) and procedures required by OAC rule 3745-17-03(B)(10).

### **1.d** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

### **1.e** Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

## **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:** Production Line 18 (P924)  
**Activity Description:** Pultrusion Process Production Unit

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- 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>
Pultrusion process production unit Z018	OAC rule 3745-31-05 (PTI 16-980)	8.0 lbs/hr total organic materials* 40.0 lbs/day total organic materials* 0.2 lb/hr particulate matter
		*as defined under OAC 3745-21-01 -- also includes cleanup emissions
	OAC rule 3745-17-07	20% opacity as a 6-minute average, except as provided by rule, for stack emissions
		20% opacity as a 3-minute average, for fugitive emissions
	OAC rule 3745-17-08	See A.2.a below.
	OAC rule 3745-17-11	See A.2.b below.
	OAC rule 3745-21-07(G)	See A.2.b below.

##### 2. Additional Terms and Conditions

- The permittee shall operate and maintain hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control emissions so as to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- The emission limitation required by this rule is less stringent than the emission limitation as determined using best available technology.

##### II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation; except for the 5 to 7 minutes per hour that each cyclone is in its blow-back mode for the purpose of filter decaking. During this mode, venting of particulates to the outside of the equipment, or the facility, shall not occur.

### **III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis; but not during the periods of the blow-back operation.
2. The permittee shall record the following information on a daily basis for the line:
  - a. identification and quantity (pounds) of each resin batch received for processing;
  - b. styrene content (% by weight) of each batch;
  - c. styrene emissions from each batch, i.e., (% styrene) x (batch weight) x (0.04, AP-42 emission factor);
  - d. identification and net usage (pounds emissions) of each wiping solvent and organic material cleaning liquid employed (net usage shall be the difference between quantities employed and any returned for disposal/recycling, including solids);
  - e. production hours; and
  - f. daily (pounds) and average hourly emissions (pounds/hour) resulting from resin batch processing, and clean-up materials for the following pollutants:
    - i. organic material;
    - ii. volatile organic compounds; and
    - iii. styrene.

These calculations shall be based upon a mass balance approach.

### **IV. 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 baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each day during which the average hourly organic material emissions exceeded 8.0 pounds per hour, and the actual average hourly organic material emissions for each such day; and
  - b. an identification of each day during which the organic material emissions exceeded 40.0 pounds per day, and the actual organic material emissions for each such day.
3. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

### **V. Testing Requirements**

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

## **V. Testing Requirements (continued)**

**1.a** Emission Limitation:

8.0 lbs/hr total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average hourly total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.b** Emission Limitation:

40.0 lbs/day total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average daily total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.c** Emission Limitation:

0.2 lb/hr particulate matter

Applicable Compliance Method:

If required, compliance with the particulate mass emission limitation shall be in accordance with the method(s) and procedures required by OAC rule 3745-17-03(B)(10).

**1.d** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**1.e** Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

## **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:** Production Line 19 (P925)  
**Activity Description:** Pultrusion Process Production Unit

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- 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>
Pultrusion process production unit Z019	OAC rule 3745-31-05 (PTI 16-980)	8.0 lbs/hr total organic materials* 40.0 lbs/day total organic materials* 0.2 lb/hr particulate matter
		*as defined under OAC 3745-21-01 -- also includes cleanup emissions
	OAC rule 3745-17-07	20% opacity as a 6-minute average, except as provided by rule, for stack emissions
		20% opacity as a 3-minute average, for fugitive emissions
	OAC rule 3745-17-08	See A.2.a below.
	OAC rule 3745-17-11	See A.2.b below.
	OAC rule 3745-21-07(G)	See A.2.b below.

##### 2. Additional Terms and Conditions

- The permittee shall operate and maintain hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control emissions so as to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- The emission limitation required by this rule is less stringent than the emission limitation as determined using best available technology.

##### II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation; except for the 5 to 7 minutes per hour that each cyclone is in its blow-back mode for the purpose of filter decaking. During this mode, venting of particulates to the outside of the equipment, or the facility, shall not occur.

### **III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis; but not during the periods of the blow-back operation.
2. The permittee shall record the following information on a daily basis for the line:
  - a. identification and quantity (pounds) of each resin batch received for processing;
  - b. styrene content (% by weight) of each batch;
  - c. styrene emissions from each batch, i.e., (% styrene) x (batch weight) x (0.04, AP-42 emission factor);
  - d. identification and net usage (pounds emissions) of each wiping solvent and organic material cleaning liquid employed (net usage shall be the difference between quantities employed and any returned for disposal/recycling, including solids);
  - e. production hours; and
  - f. daily (pounds) and average hourly emissions (pounds/hour) resulting from resin batch processing, and clean-up materials for the following pollutants:
    - i. organic material;
    - ii. volatile organic compounds; and
    - iii. styrene.

These calculations shall be based upon a mass balance approach.

### **IV. 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 baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each day during which the average hourly organic material emissions exceeded 8.0 pounds per hour, and the actual average hourly organic material emissions for each such day; and
  - b. an identification of each day during which the organic material emissions exceeded 40.0 pounds per day, and the actual organic material emissions for each such day.
3. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

### **V. Testing Requirements**

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

## **V. Testing Requirements (continued)**

**1.a** Emission Limitation:

8.0 lbs/hr total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average hourly total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.b** Emission Limitation:

40.0 lbs/day total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average daily total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.c** Emission Limitation:

0.2 lb/hr particulate matter

Applicable Compliance Method:

If required, compliance with the particulate mass emission limitation shall be in accordance with the method(s) and procedures required by OAC rule 3745-17-03(B)(10).

**1.d** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**1.e** Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

## **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:** Production Line 20 (P926)  
**Activity Description:** Pultrusion Process Production Unit

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- 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>
Pultrusion process production unit Z020	OAC rule 3745-31-05 (PTI 16-980)	8.0 lbs/hr total organic materials* 40.0 lbs/day total organic materials* 0.2 lb/hr particulate matter
		*as defined under OAC 3745-21-01 -- also includes cleanup emissions
	OAC rule 3745-17-07	20% opacity as a 6-minute average, except as provided by rule, for stack emissions
		20% opacity as a 3-minute average, for fugitive emissions
	OAC rule 3745-17-08	See A.2.a below.
	OAC rule 3745-17-11	See A.2.b below.
	OAC rule 3745-21-07(G)	See A.2.b below.

##### 2. Additional Terms and Conditions

- The permittee shall operate and maintain hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control emissions so as to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- The emission limitation required by this rule is less stringent than the emission limitation as determined using best available technology.

##### II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation; except for the 5 to 7 minutes per hour that each cyclone is in its blow-back mode for the purpose of filter decaking. During this mode, venting of particulates to the outside of the equipment, or the facility, shall not occur.

### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis; but not during the periods of the blow-back operation.
2. The permittee shall record the following information on a daily basis for the line:
  - a. identification and quantity (pounds) of each resin batch received for processing;
  - b. styrene content (% by weight) of each batch;
  - c. styrene emissions from each batch, i.e., (% styrene) x (batch weight) x (0.04, AP-42 emission factor);
  - d. identification and net usage (pounds emissions) of each wiping solvent and organic material cleaning liquid employed (net usage shall be the difference between quantities employed and any returned for disposal/recycling, including solids);
  - e. production hours; and
  - f. daily (pounds) and average hourly emissions (pounds/hour) resulting from resin batch processing, and clean-up materials for the following pollutants:
    - i. organic material;
    - ii. volatile organic compounds; and
    - iii. styrene.

These calculations shall be based upon a mass balance approach.

### IV. 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 baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each day during which the average hourly organic material emissions exceeded 8.0 pounds per hour, and the actual average hourly organic material emissions for each such day; and
  - b. an identification of each day during which the organic material emissions exceeded 40.0 pounds per day, and the actual organic material emissions for each such day.
3. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

### V. Testing Requirements

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

## **V. Testing Requirements (continued)**

**1.a** Emission Limitation:

8.0 lbs/hr total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average hourly total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.b** Emission Limitation:

40.0 lbs/day total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average daily total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.c** Emission Limitation:

0.2 lb/hr particulate matter

Applicable Compliance Method:

If required, compliance with the particulate mass emission limitation shall be in accordance with the method(s) and procedures required by OAC rule 3745-17-03(B)(10).

**1.d** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**1.e** Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

## **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:** Production Line 21 (P927)  
**Activity Description:** Pultrusion Process Production Unit

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- 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>
Pultrusion process production unit Z021	OAC rule 3745-31-05 (PTI 16-980)	8.0 lbs/hr total organic materials* 40.0 lbs/day total organic materials* 0.2 lb/hr particulate matter
		*as defined under OAC 3745-21-01 -- also includes cleanup emissions
	OAC rule 3745-17-07	20% opacity as a 6-minute average, except as provided by rule, for stack emissions
		20% opacity as a 3-minute average, for fugitive emissions
	OAC rule 3745-17-08	See A.2.a below.
	OAC rule 3745-17-11	See A.2.b below.
	OAC rule 3745-21-07(G)	See A.2.b below.

##### 2. Additional Terms and Conditions

- The permittee shall operate and maintain hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control emissions so as to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- The emission limitation required by this rule is less stringent than the emission limitation as determined using best available technology.

##### II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation; except for the 5 to 7 minutes per hour that each cyclone is in its blow-back mode for the purpose of filter decaking. During this mode, venting of particulates to the outside of the equipment, or the facility, shall not occur.

### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis; but not during the periods of the blow-back operation.
2. The permittee shall record the following information on a daily basis for the line:
  - a. identification and quantity (pounds) of each resin batch received for processing;
  - b. styrene content (% by weight) of each batch;
  - c. styrene emissions from each batch, i.e., (% styrene) x (batch weight) x (0.04, AP-42 emission factor);
  - d. identification and net usage (pounds emissions) of each wiping solvent and organic material cleaning liquid employed (net usage shall be the difference between quantities employed and any returned for disposal/recycling, including solids);
  - e. production hours; and
  - f. daily (pounds) and average hourly emissions (pounds/hour) resulting from resin batch processing, and clean-up materials for the following pollutants:
    - i. organic material;
    - ii. volatile organic compounds; and
    - iii. styrene.

These calculations shall be based upon a mass balance approach.

### IV. 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 baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each day during which the average hourly organic material emissions exceeded 8.0 pounds per hour, and the actual average hourly organic material emissions for each such day; and
  - b. an identification of each day during which the organic material emissions exceeded 40.0 pounds per day, and the actual organic material emissions for each such day.
3. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

### V. Testing Requirements

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

## **V. Testing Requirements (continued)**

**1.a** Emission Limitation:

8.0 lbs/hr total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average hourly total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.b** Emission Limitation:

40.0 lbs/day total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average daily total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.c** Emission Limitation:

0.2 lb/hr particulate matter

Applicable Compliance Method:

If required, compliance with the particulate mass emission limitation shall be in accordance with the method(s) and procedures required by OAC rule 3745-17-03(B)(10).

**1.d** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**1.e** Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

## **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:** Production Line 22 (P928)  
**Activity Description:** Pultrusion Process Production Unit

#### 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>
Pultrusion process production unit Z022	OAC rule 3745-31-05 (PTI 16-980)	8.0 lbs/hr total organic materials* 40.0 lbs/day total organic materials* 0.2 lb/hr particulate matter  *as defined under OAC 3745-21-01 -- also includes cleanup emissions
	OAC rule 3745-17-07	20% opacity as a 6-minute average, except as provided by rule, for stack emissions  20% opacity as a 3-minute average, for fugitive emissions
	OAC rule 3745-17-08	See A.2.a below.
	OAC rule 3745-17-11	See A.2.b below.
	OAC rule 3745-21-07(G)	See A.2.b below.

##### 2. Additional Terms and Conditions

- 2.a The permittee shall operate and maintain hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control emissions so as to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- 2.b The emission limitation required by this rule is less stringent than the emission limitation as determined using best available technology.

##### II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation; except for the 5 to 7 minutes per hour that each cyclone is in its blow-back mode for the purpose of filter decaking. During this mode, venting of particulates to the outside of the equipment, or the facility, shall not occur.

### **III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis; but not during the periods of the blow-back operation.
2. The permittee shall record the following information on a daily basis for the line:
  - a. identification and quantity (pounds) of each resin batch received for processing;
  - b. styrene content (% by weight) of each batch;
  - c. styrene emissions from each batch, i.e., (% styrene) x (batch weight) x (0.04, AP-42 emission factor);
  - d. identification and net usage (pounds emissions) of each wiping solvent and organic material cleaning liquid employed (net usage shall be the difference between quantities employed and any returned for disposal/recycling, including solids);
  - e. production hours; and
  - f. daily (pounds) and average hourly emissions (pounds/hour) resulting from resin batch processing, and clean-up materials for the following pollutants:
    - i. organic material;
    - ii. volatile organic compounds; and
    - iii. styrene.

These calculations shall be based upon a mass balance approach.

### **IV. 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 baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each day during which the average hourly organic material emissions exceeded 8.0 pounds per hour, and the actual average hourly organic material emissions for each such day; and
  - b. an identification of each day during which the organic material emissions exceeded 40.0 pounds per day, and the actual organic material emissions for each such day.
3. The deviation (excursion) reports shall be submitted in accordance with Section A.1.c of the General Terms and Conditions.

### **V. Testing Requirements**

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

## **V. Testing Requirements (continued)**

**1.a** Emission Limitation:

8.0 lbs/hr total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average hourly total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.b** Emission Limitation:

40.0 lbs/day total organic materials

Applicable Compliance Method:

Daily records shall be maintained of the total organic materials content of each resin batch and cleanup material employed, the daily usage of each resin batch and cleanup material employed, and the calculated average daily total organic material emission rate for all resin batches and cleanup materials employed based upon a mass balance approach. Formulation data shall be used to determine the total organic material content of each resin batch and cleanup material.

**1.c** Emission Limitation:

0.2 lb/hr particulate matter

Applicable Compliance Method:

If required, compliance with the particulate mass emission limitation shall be in accordance with the method(s) and procedures required by OAC rule 3745-17-03(B)(10).

**1.d** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**1.e** Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

## **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:** Resin Tanks 1-4 (T001)  
**Activity Description:** Process Resin Storage Tanks; Atmospheric

#### 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>
Process resin storage tanks; atmospheric, Tank 1 3,500 gal, Tank 2 3,500 gal, Tank 3 5,000 gal, Tank 4 5,000 gal, Z023	OAC rule 3745-31-05 (PTI 16-980)	1.46 tpy of styrene See A.I.2.a below.
	OAC rule 3745-21-09(L)	See A.I.2.b below.

##### 2. Additional Terms and Conditions

- 2.a The storage tanks shall be equipped with a submerged fill pipe.
- 2.b These storage tanks are exempt from the requirements of OAC rule 3745-21-09(L)(1) in accordance with the size exemption as specified in OAC rule 3745-21-09(L)(2)(a).

##### II. Operational Restrictions

None

##### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records which include the following information for the storage tanks:
  - a. the type of resin stored in each tank;
  - b. the styrene content of the resin;
  - c. the organic material content of the resin;
  - d. the VOC content of the resin;
  - e. the throughput of resin for each tank, in gallons; and
  - f. the daily organic material, VOC, and styrene emission rates, in pounds per day.

##### IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) of all exceedances of the yearly mass emissions rate for styrene. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.

## **V. Testing Requirements**

1. Compliance with the emission limitation in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

1.46 tpy of styrene

Applicable Compliance Method:

Styrene emissions from each storage tank shall be determined using USEPA's "Tanks Program 3.1" based upon the maximum yearly throughput of the resin through the tank.

## **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:** Styrene Tank (T002)

**Activity Description:** Process Styrene Storage Tanks; Atmospheric, outside

#### 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>
Process styrene storage tanks with a capacity of 2,500 gallons for each tank; atmospheric, outside, Z024	OAC rule 3745-31-05 (PTI 16-980)	1.46 tpy of styrene See A.I.2.a below.
	OAC rule 3745-21-09(L)	See A.I.2.b below.

##### 2. Additional Terms and Conditions

- 2.a The storage tanks shall be equipped with a submerged fill pipe.
- 2.b These storage tanks are exempt from the requirements of OAC rule 3745-21-09(L)(1) in accordance with the size exemption as specified in OAC rule 3745-21-09(L)(2)(a).

##### II. Operational Restrictions

None

##### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records which include the following information for the storage tanks:
  - a. the type of resin stored in each tank;
  - b. the styrene content of the resin;
  - c. the organic material content of the resin;
  - d. the VOC content of the resin;
  - e. the throughput of resin for each tank, in gallons; and
  - f. the daily organic material, VOC, and styrene emission rates, in pounds per day.

##### IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) of all exceedances of the yearly mass emissions rate for styrene. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.

## **V. Testing Requirements**

1. Compliance with the emission limitation in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

1.46 tpy of styrene

Applicable Compliance Method:

Styrene emissions from each storage tank shall be determined using USEPA's "Tanks Program 3.1" based upon the maximum yearly throughput of the resin through the tank.

## **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:** Polystyrene Tank (T003)  
**Activity Description:** Polystyrene Storage Tank; Atmospheric

#### 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>
Polystyrene storage tanks with a capacity of 302 gallons for each tank; atmospheric, Z025	OAC rule 3745-31-05 (PTI 16-980)	1.46 tpy of styrene See A.I.2.a below.
	OAC rule 3745-21-09(L)	See A.I.2.b below.

##### 2. Additional Terms and Conditions

- 2.a The storage tanks shall be equipped with a submerged fill pipe.
- 2.b These storage tanks are exempt from the requirements of OAC rule 3745-21-09(L)(1) in accordance with the size exemption as specified in OAC rule 3745-21-09(L)(2)(a).

##### II. Operational Restrictions

None

##### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records which include the following information for the storage tanks:
  - a. the type of resin stored in each tank;
  - b. the styrene content of the resin;
  - c. the organic material content of the resin;
  - d. the VOC content of the resin;
  - e. the throughput of resin for each tank, in gallons; and
  - f. the daily organic material, VOC, and styrene emission rates, in pounds per day.

##### IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) of all exceedances of the yearly mass emissions rate for styrene. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.

**V. Testing Requirements**

1. Compliance with the emission limitation in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

1.46 tpy of styrene

Applicable Compliance Method:

Styrene emissions from each storage tank shall be determined using USEPA's "Tanks Program 3.1" based upon the maximum yearly throughput of the resin through the tank.

**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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