

Facility ID: 0812100565 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

[Go to Part II for Emissions Unit P001](#)  
[Go to Part II for Emissions Unit P004](#)

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Facility ID: 0812100565 Emissions Unit ID: P001 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
  - (a) None.

**A. 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>
P001 - Epoxy filament winder, oven, extractor, and wet saw for production of epoxy based fiberglass conduit	OAC rule 3745-31-05 (A)(3) PTI 08-04259	Organic compound (OC) emissions shall not exceed 0.25 lb/hr and 6.03 lbs/day, excluding cleanup.
	OAC rule 3745-35-07(B) (Synthetic Minor to avoid Title V permitting) OAC rule 3745-21-07(G)(1)	OC emissions shall not exceed 1.42 TPY OC per rolling 12-month period, including cleanup. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-07(G)(9)(e)	See Section A.2.b. below.

**2. Additional Terms and Conditions**

- (a) The 0.25 lb/hr was established to reflect potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.  
The provisions of paragraph (G) of this rule shall not apply to the use, in any article, machine, equipment, or other contrivance described in paragraph (G)(1), (G)(2), (G)(3), or (G)(4) of this rule, of liquid organic materials which exhibit a boiling point higher than 200 degrees Fahrenheit at 0.5 millimeter mercury absolute pressure, or having an equivalent vapor pressure, unless such liquid organic material is exposed to temperatures exceeding 220 degrees Fahrenheit.

**B. Operational Restrictions**

1. None

**C. Monitoring and/or Record Keeping Requirements**

1. The permittee shall collect and maintain the following information each month for emissions units P001, P003, and P004:
  - a. The company identification of each non-exempt (see Section A.2.b.) cleanup material employed.
  - b. The total, combined number of gallons of each non-exempt (see Section A.2.b.) cleanup material employed.
  - c. The organic compound content of each non-exempt (see Section A.2.b.) cleanup material, in pounds per gallon.
  - d. The total, combined organic compound emission rate for all non-exempt (see Section A.2.b.) cleanup materials, in pounds per month (for all cleanup materials, the sum of (b) times (c)).
  - e. The total, combined number of cleaning batches using non-exempt (see Section A.2.b.) cleanup materials.
2. The permittee shall collect and maintain the following information each month for each resin component (i.e., epoxy resin, UV inhibitor, mold release) and non-exempt (see Section A.2.b.) cleanup material employed in this

emissions unit:

- a. The company identification of each resin component employed.
- b. The total number of gallons of each resin component employed.
- c. The organic compound content of each resin component, in pounds per gallon.
- d. The total number of cleaning batches using non-exempt (see Section A.2.b.) cleanup materials.
- e. The total organic compound emission rate for the each styrene-containing resin component (i.e., UV inhibitor), in pounds per month (multiply the density of each styrene-containing resin component, in pounds per gallon, by the number of gallons of each styrene-containing resin component employed, and by the appropriate emission factor, in lbs styrene emitted/lb each styrene-containing resin component used, from the Table of Unified Emission Factors for Open Molding of Composites (July 23, 2001)).
- f. The total organic compound emission rate for all resin components that do not contain styrene (i.e., mold release), in pounds per month (for all resin components that do not contain styrene, the sum of (b) times (c)).
- g. The total organic compound emission rate for non-exempt (see Section A.2.b.) cleanup materials, in pounds per month (for cleanup materials, (C.1.d) times (C.2.d) divided by (C.1.e)).
- h. The total organic compound emission rate for all resin components and non-exempt (see Section A.2.b.) cleanup materials, in pounds per month (the sum of (e), (f) and (g)).
- i. The total number of days the emission unit was in operation.
- j. The average daily organic compound emission rate for the resin components and non-exempt (see Section A.2.b.) cleanup materials, i.e., (h)/(i), in pounds per day (average).
- k. The rolling, 12-month summation of organic compound emissions, in tons.

**D. Reporting Requirements**

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing that the OC emissions (excluding emissions from cleanup materials) from this emissions unit exceeds 6.03 pounds of OC per day. 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.

**E. Testing Requirements**

1. Compliance with the emission limitation in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation -  
0.25 lb/hr OC  
  
Applicable Compliance Method -  
Compliance shall be determined as follows:  
i. Multiply the maximum hourly usage rate of the styrene-containing resin component (UV inhibitor, 0.73 lb/hr) by the mass fraction of styrene in the styrene-containing resin component (0.82) and divide by the maximum hourly usage rate of epoxy resin (62 lbs/hr).  
ii. Multiply the maximum hourly usage rate of epoxy resin (62 lbs/hr) by the appropriate emission factor (using (i) as the value for %styrene), in lbs styrene emitted/lb each styrene-containing resin component used (0.0018 lb styrene emitted/lb UV inhibitor), from the Table of Unified Emission Factors for Open Molding of Composites (July 23, 2001).  
iii. Multiply the maximum hourly usage rate of the mold release (0.95 lb/hr) times the OC mass fraction of the mold release (0.15)  
iv. Sum ii + iii
  - b. Emission Limitation -  
6.03 lbs/day OC  
  
Applicable Compliance Method -  
Compliance shall be based on the record keeping specified in Sections C.1. and C.2.
  - c. Emission Limitation -  
1.42 TPY OC per rolling 12-month period  
  
Applicable Compliance Method -  
Compliance shall be determined by summing the monthly OC emission rates for the 12-month period and dividing by 2000 lbs/ton.

**F. Miscellaneous Requirements**

1. None

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Facility ID: 0812100565 Emissions Unit ID: P004 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

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1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
  - (a) None.

**A. 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>
P004 - Epoxy filament winder for production of fiberglass conduit	OAC rule 3745-31-05 (A)(3) PTI 08-04259	Organic compound (OC) emissions shall not exceed 0.35 lb/hr and 8.28 lbs/day, excluding cleanup.
	OAC rule 3745-35-07(B) (Synthetic Minor to avoid Title V permitting)	OC emissions shall not exceed 1.81 TPY OC per rolling 12-month period, including cleanup.
	OAC rule 3745-21-07(G)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-07(G)(9)(e)	See Section A.2.b. below.

**2. Additional Terms and Conditions**

- (a) The 0.35 lb/hr was established to reflect potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.  
The provisions of paragraph (G) of this rule shall not apply to the use, in any article, machine, equipment, or other contrivance described in paragraph (G)(1), (G)(2), (G)(3), or (G)(4) of this rule, of liquid organic materials which exhibit a boiling point higher than 200 degrees Fahrenheit at 0.5 millimeter mercury absolute pressure, or having an equivalent vapor pressure, unless such liquid organic material is exposed to temperatures exceeding 220 degrees Fahrenheit.

**B. Operational Restrictions**

1. None

**C. Monitoring and/or Record Keeping Requirements**

1. The permittee shall collect and maintain the following information each month for emissions units P001, P003, and P004:
  - a. The company identification of each non-exempt (see Section A.2.b.) cleanup material employed.
  - b. The total, combined number of gallons of each non-exempt (see Section A.2.b.) cleanup material employed.
  - c. The organic compound content of each non-exempt (see Section A.2.b.) cleanup material, in pounds per gallon.
  - d. The total, combined organic compound emission rate for all non-exempt (see Section A.2.b.) cleanup materials, in pounds per month (for all cleanup materials, the sum of (b) times (c)).
  - e. The total, combined number of cleaning batches using non-exempt (see Section A.2.b.) cleanup materials.
2. The permittee shall collect and maintain the following information each month for each resin component (i.e., epoxy resin, UV inhibitor, mold release) and non-exempt (see Section A.2.b.) cleanup material employed in this emissions unit:
  - a. The company identification of each resin component employed.
  - b. The total number of gallons of each resin component employed.
  - c. The organic compound content of each resin component, in pounds per gallon.
  - d. The total number of cleaning batches using non-exempt (see Section A.2.b.) cleanup materials.
  - e. The total organic compound emission rate for the each styrene-containing resin component (i.e., UV inhibitor), in pounds per month (multiply the density of each styrene-containing resin component, in pounds per gallon, by the number of gallons of each styrene-containing resin component employed, and by the appropriate emission factor, in lbs styrene emitted/lb each styrene-containing resin component used, from the Table of Unified Emission Factors for Open Molding of Composites (July 23, 2001)).
  - f. The total organic compound emission rate for all resin components that do not contain styrene (i.e., mold

release), in pounds per month (for all resin components that do not contain styrene, the sum of (b) times (c)).

g. The total organic compound emission rate for non-exempt (see Section A.2.b.) cleanup materials, in pounds per month (for cleanup materials, (C.1.d) times (C.2.d) divided by (C.1.e).

h. The total organic compound emission rate for all resin components and non-exempt (see Section A.2.b.) cleanup materials, in pounds per month (the sum of (e), (f) and (g)).

i. The total number of days the emission unit was in operation.

j. The average daily organic compound emission rate for the resin components and non-exempt (see Section A.2.b.) cleanup materials, i.e., (h)/(i), in pounds per day (average).

k. The rolling, 12-month summation of organic compound emissions, in tons.

**D. Reporting Requirements**

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing that the OC emissions (excluding emissions from cleanup materials) from this emissions unit exceeds 8.28 pounds of OC per day. 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.

**E. Testing Requirements**

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

a. Emission Limitation -  
0.35 lb/hr OC

Applicable Compliance Method -  
Compliance shall be determined as follows:

i. Multiply the maximum hourly usage rate of the styrene-containing resin component (UV inhibitor, 1.0 lb/hr) by the mass fraction of styrene in the styrene-containing resin component (0.82) and divide by the maximum hourly usage rate of epoxy resin (145 lbs/hr).

ii. Multiply the maximum hourly usage rate of epoxy resin (145 lbs/hr) by the appropriate emission factor (using (i) as the value for %styrene), in lbs styrene emitted/lb each styrene-containing resin component used (0.0010 lb styrene emitted/lb UV inhibitor), from the Table of Unified Emission Factors for Open Molding of Composites (July 23, 2001).

iii. Multiply the maximum hourly usage rate of the mold release (1.33 lbs/hr) times the OC mass fraction of the mold release (0.15)

iv. Sum ii + iii

b. Emission Limitation -  
8.28 lbs/day OC

Applicable Compliance Method -  
Compliance shall be based on the record keeping specified in Sections C.1. and C.2..

c. Emission Limitation -  
1.81 TPY OC per rolling 12-month period

Applicable Compliance Method -  
Compliance shall be determined by summing the monthly OC emission rates for the 12-month period and dividing by 2000 lbs/ton.

**F. Miscellaneous Requirements**

1. None