

Facility ID: 1677011043 Issuance type: Final State Permit To Operate

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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.

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1677011043 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>
Pneumatic conveying, grinding, and heating/reacting system for manufacturing products from polyester pellets, controlled by multiple baghouses	OAC rule 3745-31-05 (PTI 16-729)	13.2 lbs/day and 1.72 TPY particulates; 0.961 lb/hr and 3.0 TPY organic compounds.
	OAC rule 3745-21-07	See A.2.b, below.
	OAC rule 3745-17-11	See A.2.a, below.
	OAC rule 3745-17-07	2.58 lbs/hr particulates. Visible particulate emissions from any stack serving this emissions unit shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

**2. Additional Terms and Conditions**

- (a) None, exempt pursuant to OAC rule 3745-21-07(G)(9). See B.2, below. For each system of this emissions unit (i.e., size reduction, transport, and heating/reaction), the permittee shall employ best available technology (BAT) to control particulate emissions. The control technology shall include the following:
  - i. installation and employment of a baghouse (or baghouses), in accordance with the manufacturer's recommendations, instructions, and operating manuals, to adequately control particulate emissions; and
  - ii. the installation and employment of other equipment, in accordance with the manufacturer's recommendations, instructions, and operating manuals, to adequately enclose, contain, capture, and vent particulate matter to the baghouse(s).

**B. Operational Restrictions**

1. The maximum annual operating hours for this emissions unit shall not exceed 3115 hours.
2. The permittee shall not employ any photochemically reactive materials, as defined per OAC rule 3745-21-01(C)(5), in this emissions unit.
3. The heating/reaction system shall be electrically heated.
4. The pressure drop across each baghouse shall be maintained within the range of 4 to 6 inches of water column while the emissions unit is in operation.

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

1. The permittee shall maintain daily records of the operating hours for this emissions unit and shall calculate the total, annual operating hours of the emissions unit from such records.
2. The permittee shall install, operate, and maintain equipment to monitor the pressure drop across each baghouse while the emissions unit is in operation. Units shall be in inches of water column. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across each baghouse on a daily basis when the emissions unit is in operation.

**D. Reporting Requirements**

1. The permittee shall submit annual reports which specify the total operating hours and the total emissions of organic compounds and particulates from this emissions unit. These reports shall be submitted by January 31 of each year to reflect the previous calendar year.
2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the pressure drop across any baghouse deviated from the operating ranges specified in section B.4, while the emissions unit was in operation. These reports shall be submitted in accordance with the requirements specified in Part I, General Term and Condition 3 of this permit.

**E. 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:  
Emission Limitations -  
2.58 lbs/hr, 13.2 lbs/day and 1.72 TPY particulates

Applicable Compliance Method -  
Compliance shall be determined using the following equation:

$$PM = (\text{daily hours of operation from C.1}) \times [(1.0 + 0.1 + 0.004) \text{ lbs/hr}]$$

where:

PM = mass emission rate of particulates in lbs/day  
1.0 = grinding operation emission factor: (1000 lbs/hr) x (1 - 0.999);  
0.1 = transport operation emission factor: (100 lbs/hr) x (1 - 0.999);  
0.004 = heating/reaction operation: (4 lbs/hr) x (1 - 0.999); and  
0.999 = baghouse system collection and control efficiency

If required, compliance with the hourly mass emission limitation for particulates (OAC rule 3745-17-11) shall be determined in accordance with Test Methods 1-5 as set forth in Appendix A of 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996.

Emission Limitations -  
0.961 lb/hr and 3.0 TPY organic compounds

Applicable Compliance Method -  
Compliance shall be determined using the following equation:

$$OC = (11.58 \text{ lbs OC}/1000 \text{ lbs polyester}) \times (50 \text{ lbs/hr})$$

where:

OC = mass emission rate of organic compounds, in lbs/hr;  
11.58 lbs OC/1000 lbs polyester = OC emission factor for heating/reaction operations; and  
50 lbs/hr = maximum polyester dust process weight rate entering heating/reaction sub-system

If required, compliance with the hourly mass emission limitation for organic compounds shall be determined in accordance with Test Methods 1-4 and 25 or 25A, as appropriate, as set forth in Appendix A of 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996.

Emission Limitation -  
20% opacity, as a 6-minute average.

Applicable Compliance Method -  
If required, compliance shall be demonstrated through visible emissions observations. Method 9 of 40 CFR Part 60, Appendix A, shall be employed in accordance with OAC rule 3745-17-03(B)(1).

**F. Miscellaneous Requirements**

1. None