

Facility ID: 1652040031 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.

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Facility ID: 1652040031 Emissions Unit ID: P901 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>
Mixing/Weighing	OAC rule 3745-31-05(A)(3) (PTI #16-01510)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07, 3745-17-08, and 3745-17-11.  0.5 lb/hr particulate 0.005 lb/hr cadmium 0.025 lb/hr lead  The hourly emission limitations outlined are based upon the emission unit's Potential to Emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limitations.  See A.2.a below.  20% opacity as a 6-minute average (stack emissions)  20% opacity as a 3-minute average (fugitive emissions)
	OAC rule 3745-17-07	These emissions limitations specified by these rules are less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05 (A)(3).
	OAC rule 3745-17-08 OAC rule 3745-17-11	

**2. Additional Terms and Conditions**

- (a) This emissions unit shall be equipped with a fabric filter which is operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s).

**B. Operational Restrictions**

1. None

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

1. None

**D. Reporting Requirements**

- 1. None
- 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 Limitation:  
  
0.5 lb/hr particulate  
  
Applicable Compliance Method:  
  
If required, compliance shall be demonstrated by stack testing in accordance with Methods 1 thru 4 and 5A of 40 CFR Part 60, Appendix A.  
Emission Limitation:  
  
0.005 lb/hr cadmium  
  
Applicable Compliance Method:  
  
If required, compliance shall be demonstrated by stack testing in accordance with Methods 1 thru 4 and 29 of 40 CFR Part 60, Appendix A.  
Emission Limitation:  
  
0.025 lb/hr lead  
  
Applicable Compliance Method:  
  
If required, compliance shall be demonstrated by stack testing in accordance with Methods 1 thru 4 and 12 of 40 CFR Part 60, Appendix A.  
Emission Limitation:  
  
20% opacity as a 6-minute average (stack emissions)  
  
Applicable Compliance Method:  
  
OAC rule 3745-17-03(B)(1)  
Emission Limitation:  
  
Applicable Compliance Method:  
Emission Limitation:  
  
20% opacity as a 3-minute average (fugitive emissions)  
  
Applicable Compliance Method:  
  
OAC rule 3745-17-03(B)(3)

F. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1652040031 Emissions Unit ID: P902 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>
Dry Color Concentrate Line	OAC rule 3745-31-05(A)(3)	The requirements of this rule also include compliance

(PTI #16-01510)

with the requirements of OAC rules 3745-17-07, 3745-17-08, and 3745-17-11.

0.25 lb/hr particulate  
0.005 lb/hr cadmium  
0.025 lb/hr lead

The hourly emission limitations outlined are based upon the emission unit's Potential to Emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limitations.

See A.2.a below.

20% opacity as a 6-minute average (stack emissions)

20% opacity as a 3-minute average (fugitive emissions)

OAC rule 3745-17-07

These emissions limitations specified by these rules are less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05 (A)(3).

OAC rule 3745-17-08  
OAC rule 3745-17-11

2. **Additional Terms and Conditions**

- (a) This emissions unit shall be equipped with a fabric filter which is operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s).

B. **Operational Restrictions**

- 1. None

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

- 1. None

D. **Reporting Requirements**

- 1. None

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 Limitation:

0.25 lb/hr particulate

Applicable Compliance Method:

If required, compliance shall be demonstrated by stack testing in accordance with Methods 1 thru 4 and 5A of 40 CFR Part 60, Appendix A.

Emission Limitation:

0.005 lb/hr cadmium

Applicable Compliance Method:

If required, compliance shall be demonstrated by stack testing in accordance with Methods 1 thru 4 and 29 of 40 CFR Part 60, Appendix A.

Emission Limitation:

0.025 lb/hr lead

Applicable Compliance Method:

If required, compliance shall be demonstrated by stack testing in accordance with Methods 1 thru 4 and 12 of 40 CFR Part 60, Appendix A.

Emission Limitation:

20% opacity as a 6-minute average (stack emissions)

Applicable Compliance Method:

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

Emission Limitation:

Applicable Compliance Method:

Emission Limitation:

20% opacity as a 3-minute average (fugitive emissions)

Applicable Compliance Method:

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

F. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1652040031 Emissions Unit ID: P903 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>
Extrusion and High Intensity Mixing	OAC rule 3745-31-05(A)(3) (PTI #16-01510)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07, 3745-17-08, and 3745-17-11.  0.75 lb/hr particulate 0.005 lb/hr cadmium 0.025 lb/hr lead 2.0 lbs/hr VOC  The hourly emission limitations outlined are based upon the emission unit's Potential to Emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limitations.  See A.2.a below.  20% opacity as a 6-minute average (stack emissions)  20% opacity as a 3-minute average (fugitive emissions)  These emissions limitations specified by these rules are less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05 (A)(3).
	OAC rule 3745-17-07	
	OAC rule 3745-17-08 OAC rule 3745-17-11	

2. **Additional Terms and Conditions**

- (a) This emissions unit shall be equipped with a fabric filter which is operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s).

B. **Operational Restrictions**

- 1. None

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

- 1. None

D. **Reporting Requirements**

- 1. None

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 Limitation:

0.75 lb/hr particulate

Applicable Compliance Method:

If required, compliance shall be demonstrated by stack testing in accordance with Methods 1 thru 4 and 5A of 40 CFR Part 60, Appendix A.

Emission Limitation:

0.005 lb/hr cadmium

Applicable Compliance Method:

If required, compliance shall be demonstrated by stack testing in accordance with Methods 1 thru 4 and 29 of 40 CFR Part 60, Appendix A.

Emission Limitation:

0.025 lb/hr lead

Applicable Compliance Method:

If required, compliance shall be demonstrated by stack testing in accordance with Methods 1 thru 4 and 12 of 40 CFR Part 60, Appendix A.

Emission Limitation:

20% opacity as a 6-minute average (stack emissions)

Applicable Compliance Method:

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

Emission Limitation:

Applicable Compliance Method:

Emission Limitation:

20% opacity as a 3-minute average (fugitive emissions)

Applicable Compliance Method:

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

Emission Limitation:

2.0 lbs/hr VOC

Applicable Compliance Method:

If required, compliance shall be demonstrated by stack testing in accordance with Methods 1 thru 4 and 25 of 40 CFR Part 60, Appendix A.

**F. Miscellaneous Requirements**

1. None

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Facility ID: 1652040031 Emissions Unit ID: P904 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>
Littleford Hi-Intensity Mixer, Model W-600, controlled with baghouse - mixing of resin and/or pigment	OAC rule 3745-31-05(A)(3) (PTI #16-02251)	The requirements of this rule also include compliance with the requirements of OAC rule  0.34 lbs/hr particulate 1.49 tpy particulate  5% opacity as a 6-minute average (stack emissions)  See A.2.a below.  See A.2.b below.
	OAC rule 3745-17-07(A)(1)	The mixer shall be vented to a baghouse to control particulate emissions.
	OAC rule 3745-17-08(B)(3)	See A.2.b below.
	OAC rule 3745-17-11(B)	
<b>2. Additional Terms and Conditions</b>		
	(a)	The pounds per hour emission limitation was established for PTI purposes to reflect the potential to emit for this emission unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit. The emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.
<b>B. Operational Restrictions</b>		
	1.	The pressure drop across the baghouse shall be maintained within the range of 3 - 7 inches of water while the emissions unit is in operation.
<b>C. Monitoring and/or Record Keeping Requirements</b>		
	1.	The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. 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 the baghouse on a daily basis.
<b>D. Reporting Requirements</b>		
	1.	The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
	2.	The deviation (excursion) reports shall be submitted in accordance with section A.2 of the General Terms and Conditions.
<b>E. Testing Requirements</b>		
	1.	Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s): Emission Limitation:  0.34 lbs/hr particulate 1.49 tpy particulate  Applicable Compliance Method:  If required, the permittee shall demonstrate compliance with the hourly emission limitation by testing in accordance with Method 5, 40 CFR Part 60, Appendix A.  Compliance with the annual limitation shall be demonstrated by multiplying the hourly emission rate by 8760 and divide by 2000 to convert to tons per year. Emission Limitation:  5% opacity as a 6-minute average (stack emissions)  Applicable Compliance Method:  OAC rule 3745-17-03(B)(1)
<b>F. Miscellaneous Requirements</b>		
	1.	None

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Facility ID: 1652040031 Emissions Unit ID: P905 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>
Kelly duplex mixer controlled with baghouse - mixing of resin and/or pigment	OAC rule 3745-31-05(A)(3) (PTI #16-02251)	The requirements of this rule also include compliance with the requirements of OAC rule  0.29 lbs/hr particulate 1.27 tpy particulate  5% opacity as a 6-minute average (stack emissions)  See A.2.a below.  See A.2.b below.
	OAC rule 3745-17-07(A)(1)  OAC rule 3745-17-08(B)(3)	The mixer shall be vented to a baghouse to control particulate emissions.  See A.2.b below.
	OAC rule 3745-17-11(B)	

**2. Additional Terms and Conditions**

- (a) The pounds per hour emission limitation was established for PTI purposes to reflect the potential to emit for this emission unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.  
The emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.

**B. Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 3 - 7 inches of water while the emissions unit is in operation.

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

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. 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 the baghouse on a daily basis.

**D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The deviation (excursion) reports shall be submitted in accordance with section A.2 of the General Terms and Conditions.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):  
Emission Limitation:  
  
0.29 lbs/hr particulate  
1.27 tpy particulate  
  
Applicable Compliance Method:  
  
If required, the permittee shall demonstrate compliance with the hourly emission limitation by testing in accordance with Method 5, 40 CFR Part 60, Appendix A.  
  
Compliance with the annual limitation shall be demonstrated by multiplying the hourly emission rate by 8760 and divide by 2000 to convert to tons per year.

Emission Limitation:

5% opacity as a 6-minute average (stack emissions)

Applicable Compliance Method:

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

**F. Miscellaneous Requirements**

- 1. None

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Facility ID: 1652040031 Emissions Unit ID: P906 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>
Werner & Pfleiderer twin-screw extruder controlled with baghouse - extrusion of plastic resin	OAC rule 3745-31-05(A)(3) (PTI #16-02251)	The requirements of this rule also include compliance with the requirements of OAC rule  0.46 lbs/hr particulate 2.01 tpy particulate  5% opacity as a 6-minute average (stack emissions)  See A.2.a below.  See A.2.b below.
	OAC rule 3745-17-07(A)(1)	The extruder shall be vented to a baghouse to control particulate emissions.
	OAC rule 3745-17-08(B)(3)	See A.2.b below.
	OAC rule 3745-17-11(B)	

**2. Additional Terms and Conditions**

- (a) The pounds per hour emission limitation was established for PTI purposes to reflect the potential to emit for this emission unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit. The emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.

**B. Operational Restrictions**

- 1. The pressure drop across the baghouse shall be maintained within the range of 3 - 7 inches of water while the emissions unit is in operation.

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

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. 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 the baghouse on a daily basis.

**D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The deviation (excursion) reports shall be submitted in accordance with section A.2 of the General Terms and Conditions.

**E. Testing Requirements**

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

Emission Limitation:

0.46 lbs/hr particulate  
2.01 tpy particulate

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the hourly emission limitation by testing in accordance with Method 5, 40 CFR Part 60, Appendix A.

Compliance with the annual limitation shall be demonstrated by multiplying the hourly emission rate by 8760 and divide by 2000 to convert to tons per year.

Emission Limitation:

5% opacity as a 6-minute average (stack emissions)

Applicable Compliance Method:

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

**F. Miscellaneous Requirements**

1. None