

Facility ID: 1677150027 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 P901](#)
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Facility ID: 1677150027 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>
Fluid bed dryer	OAC rule 3745-31-05 (PTI 16-1624)	The mass emission rate for particulate matter(PM) shall not exceed 0.86 lb/hr
		There shall be no visible particulate emissions (VE).
		See B.1 below.
		See A.2.a below.
	OAC rule 3745-17-07(A) & (B)	See A.2.a below.
	OAC rule 3745-17-11	

2. **Additional Terms and Conditions**
  - (a) The emission limitation specified by this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).

**B. Operational Restrictions**

1. The permittee shall install and use hoods, fans, and other equipment to adequately enclose, contain, capture, and vent particulate emissions to a fabric filter (baghouse).
 

The collection efficiency of the baghouse shall be sufficient to eliminate visible particulate emissions at the point (s) of capture.

The pressure drop across the baghouse shall be maintained within the range of 1 to 5 inches of water while the emissions unit is in operation.

**C. 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.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. the total duration of any visible emission incident; and
  - c. any corrective actions taken to eliminate the visible emissions.

**D. Reporting Requirements**

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not fall within the range specified above, ( 1 - 5 inches of water).
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The reports shall be submitted as specified in General 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 Limitation:  
 0.86 lb/hr of PM  
 Applicable Compliance Method:  
 Multiply the particulate emission factor of 3.6 E-6 pound of particulates per actual cubic foot of air by the baghouse flowrate of 4000 actual cubic feet per minute and by 60 minutes per hour.  
 The particulate emission factor was derived from Flex-Kleen stack tests, as specified in the PTI application.  
 Emission Limitation:  
 no VE  
 Applicable Compliance Method:  
 Compliance with the visible VE limit shall be determined through VE observation performed in accordance with 40 CFR Part 60, Appendix A, Method 22 and the procedures specified in OAC rule 3745-17-03(B)(4).

**F. Miscellaneous Requirements**

1. None

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Facility ID: 1677150027 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>
#1 Mixing Line	OAC rule 3745-31-05 (PTI 16-1624)	0.49 lb/hr of particulates  no visible emissions  See B.1 below.
	OAC rule 3745-17-07	See A.2.a below.
	OAC rule 3745-17-08	See A.2.a below.
	OAC rule 3745-17-11	See A.2.a below.

**2. Additional Terms and Conditions**

- (a) The emission limitation specified by this rule is equivalent to or less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**B. Operational Restrictions**

1. The permittee shall install and use hoods, fans, and other equipment to adequately enclose, contain, capture, and vent particulate emissions to a fabric filter (baghouse).

The collection efficiency of the baghouse shall be sufficient to eliminate visible particulate emissions at the point (s) of capture.

The pressure drop across the baghouse shall be maintained within the range of 1 to 5 inches of water while the emissions unit is in operation.

**C. 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.

2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. the total duration of any visible emission incident; and
- c. any corrective actions taken to eliminate the visible emissions.

**D. Reporting Requirements**

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not fall within the range specified above, ( 1 - 5 inches of water).

2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

3. The reports shall be submitted as specified in General 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 Limitation:

0.49 lb/hr of particulate matter

Applicable Compliance Method:

Multiply the particulate emission factor of 2.7 E-6 pound of particulates per actual cubic foot of air by the baghouse flowrate of 3000 actual cubic feet per minute and by 60 minutes per hour.

The particulate emission factor was derived from Flex-Kleen stack tests, as specified in the PTI application.

Emission Limitation:

no visible PE

Applicable Compliance Method:

USEPA Method 22

**F. Miscellaneous Requirements**

1. None

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Facility ID: 1677150027 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>
Powder bagging line	OAC rule 3745-31-05 (PTI 16-1624)	The mass emission rate for particulate matter (PM) shall not exceed 0.41 lb/hr  There shall be no visible particulate emissions (VE).  See B.1 below.  See A.2.a below.
	OAC rule 3745-17-07	See A.2.a below.
	OAC rule 3745-17-08	See A.2.a below.
	OAC rule 3745-17-11	

**2. Additional Terms and Conditions**

- (a) The emission limitation specified by this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).

**B. Operational Restrictions**

1. The permittee shall install and use hoods, fans, and other equipment to adequately enclose, contain, capture, and vent particulate emissions to a fabric filter (baghouse).
 

The collection efficiency of the baghouse shall be sufficient to eliminate visible particulate emissions at the point (s) of capture.

The pressure drop across the baghouse shall be maintained within the range of 1 to 5 inches of water while the emissions unit is in operation.

**C. 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.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. the total duration of any visible emission incident; and
  - c. any corrective actions taken to eliminate the visible emissions.

**D. Reporting Requirements**

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not fall within the range specified above, ( 1 - 5 inches of water).
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The reports shall be submitted as specified in General 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 Limitation:  
  
0.41 lb/hr of PM:  
  
Applicable Compliance Method:  
  
Multiply the particulate emission factor of 2.7 E-6 pound of particulates per actual cubic foot of air by the baghouse flowrate of 2500 actual cubic feet per minute and by 60 minutes per hour.

The particulate emission factor was derived from Flex-Kleen stack tests, as specified in the PTI application.  
Emission Limitation:

no VE

Applicable Compliance Method:

Compliance with the visible VE limit shall be determined through VE observation performed in accordance with 40 CFR Part 60, Appendix A, Method 22 and the procedures specified in OAC rule 3745-17-03(B)(4).

**F. Miscellaneous Requirements**

1. None

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**Facility ID: 1677150027 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>
Bagging line	OAC rule 3745-31-05 (PTI 16-1625)	The mass emission rate for particulate matter (PM) shall not exceed 0.32 lb/hr  There shall be no visible particulate emissions (VE).  See B.1 below.  See A.2.a below.
	OAC rule 3745-17-07	See A.2.a below.
	OAC rule 3745-17-08	See A.2.a below.
	OAC rule 3745-17-11	

2. **Additional Terms and Conditions**
  - (a) The emission limitation specified by this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).

**B. Operational Restrictions**

1. The permittee shall install and use hoods, fans, and other equipment to adequately enclose, contain, capture, and vent particulate emissions to a fabric filter (baghouse).
 

The collection efficiency of the baghouse shall be sufficient to eliminate visible particulate emissions at the point (s) of capture.

The pressure drop across the baghouse shall be maintained within the range of 1 to 5 inches of water while the emissions unit is in operation.

**C. 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.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather

conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. the total duration of any visible emission incident; and
- c. any corrective actions taken to eliminate the visible emissions.

**D. Reporting Requirements**

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not fall within the range specified above, ( 1 - 5 inches of water).
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The reports shall be submitted as specified in General 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 Limitation:  
 0.32 lb/hr of PM  
 Applicable Compliance Method:  
 Multiply the particulate emission factor of 2.7 E-6 pound of particulates per actual cubic foot of air by the baghouse flowrate of 2000 actual cubic feet per minute and by 60 minutes per hour.  
 The particulate emission factor was derived from Flex-Kleen stack tests, as specified in the PTI application.  
 Emission Limitation:  
 no VE  
 Applicable Compliance Method:  
 Compliance with the visible VE limit shall be determined through VE observation performed in accordance with 40 CFR Part 60, Appendix A, Method 22 and the procedures specified in OAC rule 3745-17-03(B)(4).

**F. Miscellaneous Requirements**

1. None

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Facility ID: 1677150027 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>
#2 Mixing Line	OAC rule 3745-31-05 (PTI 16-1625)	The mass emission rate for particulate matter (PM) shall not exceed 0.49 lb/hr
		There shall be no visible particulate emissions (VE).

See B.1 below.

See A.2.a below.

OAC rule 3745-17-07

See A.2.a below.

OAC rule 3745-17-08

See A.2.a below.

OAC rule 3745-17-11

**2. Additional Terms and Conditions**

- (a) The emission limitation specified by this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).

**B. Operational Restrictions**

1. The permittee shall install and use hoods, fans, and other equipment to adequately enclose, contain, capture, and vent particulate emissions to a fabric filter (baghouse).

The collection efficiency of the baghouse shall be sufficient to eliminate visible particulate emissions at the point (s) of capture.

The pressure drop across the baghouse shall be maintained within the range of 1 to 5 inches of water while the emissions unit is in operation.

**C. 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.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
- the color of the emissions;
  - the total duration of any visible emission incident; and
  - any corrective actions taken to eliminate the visible emissions.

**D. Reporting Requirements**

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not fall within the range specified above, ( 1 - 5 inches of water).
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The reports shall be submitted as specified in General 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 Limitation:

0.49 lb/hr of PM

Applicable Compliance Method:

Multiply the particulate emission factor of 2.7 E-6 pound of particulates per actual cubic foot of air by the baghouse flowrate of 3000 actual cubic feet per minute and by 60 minutes per hour.

The particulate emission factor was derived from Flex-Kleen stack tests, as specified in the PTI application.

Emission Limitation:

no VE

Applicable Compliance Method:

Compliance with the visible VE limit shall be determined through VE observation performed in accordance with 40 CFR Part 60, Appendix A, Method 22 and the procedures specified in OAC rule 3745-17-03(B)(4).

**F. Miscellaneous Requirements**

1. None