

Facility ID: 1677011056 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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THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1677011056 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>
500 liter high intensity mixer controlled with a Farr baghouse.	OAC Rule 3745-31-05	15.4 tons/yr particulates 3.53 pounds/hr particulates
	OAC Rule 3745-17-07	20% opacity as a six-minute average.
	OAC Rule 3745-17-11(A)(1)(f)	less stringent than the requirements of OAC Rule 3745-31-05.
	OAC Rule 3745-17-08	See 2.b and 2.c below.

2. Additional Terms and Conditions

- (a) The Emission limit of 3.53 lbs per hour includes both stack and fugitive emissions of particulate matter, based on a maximum production rate of 1600 pounds per hour and using table 1 equation 2 of OAC Rule 3745-17-11. The maximum production rate of 1600 pounds per hour was supplied by the facility based on material balance calculations.
The permittee shall install and use hood, fans, and other equipment to adequately enclose, capture, vent and control the fugitive dust. The collection efficiency shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the points of capture to the extent possible with good engineering design.
The combined outlet emission rate for the baghouse that this services emissions unit shall not exceed 0.030 grains of particulate matter emissions per dry standard cubic foot of exhaust gas or there are no visible emissions from the exhaust stack(s) whichever is less stringent.
The permittee shall use no photochemically reactive plasticizer or clean-up materials in this emissions unit.

B. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 1.0 and 8.0 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 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. These reports shall be submitted to the appropriate local air agency within 45 days of the excursion being recorded.

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:

3.53 lbs/hr of particulate matter

Applicable Compliance Method:

Multiply the particulate emission factor of 0.01 pound of particulate emissions per pound of dry raw material employed per hour by [1-(the design efficiency of the control device x the capture efficiency of the control device)]. The particulate emission factor was obtained from AP-40 "The Air Pollution Engineering Manual", 2nd Edition, chapter 7.

Future testing may be required in accordance with the methods and procedures required by 40 CFR Part 60, Appendix A, Methods 1-5.

Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance with the visible emission limitations in OAC rule 3745-17-07(A)(1) shall be determined in accordance with the test method and procedures in OAC rule 3745-17-03(B)(1).

Emission Limitation:

0.030 grain of particulate matter emissions per dry standard cubic foot of exhaust gas or no visible particulate emissions from the exhaust stack(s) whichever is less stringent

Applicable Compliance Method:

If visible particulate emissions are present from the exhaust of the baghouse, future testing may be required in accordance with the methods and procedures required by 40 CFR Part 60, Appendix A, Methods 1-5.

F. **Miscellaneous Requirements**

1. None

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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>
150 liter high intensity mixer controlled with a Farr baghouse.	OAC Rule 3745-31-05	6.1 tons/yr particulates 1.39 pounds/hr particulates
	OAC Rule 3745-17-07	20% opacity as a six-minute average.
	OAC Rule 3745-17-11(A)(1)(f)	less stringent than the requirements of OAC Rule 3745-31-05.
	OAC Rule 3745-17-08	See 2.b and 2.c below.

2. **Additional Terms and Conditions**

- (a) The Emission limit of 3.53 lbs per hour includes both stack and fugitive emissions of particulate matter, based on a maximum production rate of 1600 pounds per hour and using table 1 equation 2 of OAC Rule 3745-17-11. The maximum production rate of 1600 pounds per hour was supplied by the

facility based on material balance calculations.

The permittee shall install and use hood, fans, and other equipment to adequately enclose, capture, vent and control the fugitive dust. The collection efficiency shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the points of capture to the extent possible with good engineering design.

The combined outlet emission rate for the baghouse that this services emissions unit shall not exceed 0.030 grains of particulate matter emissions per dry standard cubic foot of exhaust gas or there are no visible emissions from the exhaust stack(s) whichever is less stringent.

The permittee shall use no photochemically reactive plasticizer or clean-up materials in this emissions unit.

B. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 1.0 and 8.0 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 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. These reports shall be submitted to the appropriate local air agency within 45 days of the excursion being recorded.

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:

3.53 lbs/hr of particulate matter

Applicable Compliance Method:

Multiply the particulate emission factor of 0.01 pound of particulate emissions per pound of dry raw material employed per hour by [1-(the design efficiency of the control device x the capture efficiency of the control device)]. The particulate emission factor was obtained from AP-40 "The Air Pollution Engineering Manual", 2nd Edition, chapter 7.

Future testing may be required in accordance with the methods and procedures required by 40 CFR Part 60, Appendix A, Methods 1-5.

Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance with the visible emission limitations in OAC rule 3745-17-07(A)(1) shall be determined in accordance with the test method and procedures in OAC rule 3745-17-03(B)(1).

Emission Limitation:

0.030 grain of particulate matter emissions per dry standard cubic foot of exhaust gas or no visible particulate emissions from the exhaust stack(s) whichever is less stringent

Applicable Compliance Method:

If visible particulate emissions are present from the exhaust of the baghouse, future testing may be required in accordance with the methods and procedures required by 40 CFR Part 60, Appendix A, Methods 1-5.

F. Miscellaneous Requirements

1. None