

Facility ID: 0238000207 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: 0238000207 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>
Wood furniture manufacturing shop controlled by two parallel collectors, and the associated wood waste load-out from each collector. The wood shop is controlled by a 72-inch cyclone/ Honeyville baghouse system and a 48-inch cyclone.	OAC rule 3745-31-05(A)(3) (PTI 02-22791 Effective 10/16/2007)	See A.2.a, A.2.b, A.2.c, A.2.d, A.2.e, A.2.f and B.2 below.
	OAC rule 3745-17-07(B)	See section A.2.h below.
	OAC rule 3745-17-08(B)	See section A.2.g below.
	OAC rule 3745-17-11	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 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- (a) Particulate emissions (PE) shall not exceed 0.01 grain per dscf of exhaust gas, 0.67 pounds per hour and 2.93 tons per year from the baghouse exhaust.
 There shall be no visible emissions from the baghouse exhaust.
 Particulate emissions (PE) shall not exceed 0.055 grain per dscf of exhaust gas, 1.20 pounds per hour and 5.27 tons per year from the 48" cyclone exhaust.
 Visible emissions of particulate emissions from the 48" cyclone shall not exceed 5% percent opacity, as a six-minute average.
 Fugitive particulate emissions shall not exceed 0.38 tons per year from the collector unloading operation.
 Visible emissions of fugitive dust shall not exceed 20 percent opacity, as a three-minute average during load-out.
 This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08 (it is located in Holmes County). Therefore, the requirements of OAC rule 3745-17-07(B) do not apply to this emissions unit.
 This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-08(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

B. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within manufacturers' recommended range at all times while the emissions unit is in operation.
2. The baghouse and cyclone collectors shall be operated with a sufficient volumetric flow rate to eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
3. During any unloading of sawdust into trucks or bins from the cyclone hopper, every attempt shall be made to reduce or control fugitive dust emissions by minimizing the drop height to the truck or bin, utilizing a truck or bine with high side boards, or placing a covering over the discharge chute during the unloading process. The collection efficiency shall be considered adequate if there are no visible particulate emissions of fugitive dust from the fabric tube during wood waste storage silo load-out in excess of 20 percent opacity, as a three-minute average.

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 collector 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 weekly basis.
2. The permittee shall perform weekly checks for any visible particulate emissions from the exhaust of the 48" cyclone collector. When the baghouse collector is vented outside the building, the permittee shall perform weekly checks for any visible particulate emissions from the exhaust of the baghouse collector. The presence or absence of any visible emissions from the exhausts of the baghouse collector or cyclone shall be noted in an operations log. If any visible emissions are observed, corrective actions shall be taken to eliminate the visible emissions and these actions shall also be noted 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.

NOTE: The exhaust from the baghouse collector for this emissions unit is currently vented back into the building. This is the normal operating mode for this emissions unit.
3. The permittee shall record in an operations log any time the telescoping tubes or other drop height reduction tool on the hopper used to load-out sawdust are not in use when sawdust load-out is in operation.
4. The permittee shall maintain copies of these records for a period of at least five years. These records should be made available for Ohio EPA or their representatives to review during normal working hours.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include the following information:
 - a. all periods of time during which the pressure drop across the baghouse collector did not comply with the allowable range specified above; and
 - b. all periods of time that the telescoping tubes or other drop height reduction tool were not used during while the sawdust load out was in operation.

The quarterly deviations reports shall be submitted in accordance with the General Terms and Conditions. These reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.
2. The permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible particulate emissions were observed from the exhausts 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 Ohio EPA Northeast District Office by January 31 and July 31 of each year and shall cover the previous six-month period.

E. Testing Requirements

1. Compliance with the emission limitations in Sections A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:
 Emission Limitations:
 0.01 gr/dscf and 0.67 pounds per hour of PE from the baghouse exhaust
 0.055 gr/dscf and 1.20 pounds per hour of PE from the 48" cyclone exhaust

 Applicable Compliance Methods:
 If required, compliance with the PE limitations above shall be determined in accordance with Methods 1 through 5 of 40 CFR, Part 60, Appendix A.
 Emission Limitation:
 2.93 tons per year of PE from the baghouse exhaust

 Applicable Compliance Methods:
 Compliance the annual allowable PE limitation may be determined by the following equation:

$$(0.055 \text{ gr/dscf}) \times (7,800 \text{ cfm}) \times (60 \text{ min/hr}) \times (8760 \text{ hr/yr}) \times (\text{lb}/7000 \text{ gr}) \times (\text{ton}/2000 \text{ lb}) \times (1 - 0.985)$$

Where:
 0.055 gr/dscf is the emission factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 10.4-1 version 4/78;
 7,800 cfm is the baghouse collector flow rate; and
 0.985 is the fractional baghouse control efficiency provided by the manufacturer.

 Emission Limitation:
 5.27 tons per year of PE from the 48" cyclone exhaust

 Applicable Compliance Methods:
 Compliance the annual allowable PE limitation may be determined by the following equations:

$$(0.055 \text{ gr/dscf}) \times (2,250 \text{ cfm}) \times (60 \text{ min/hr}) \times (8760 \text{ hr/yr}) \times (\text{lb}/7000 \text{ gr}) \times (\text{ton}/2000 \text{ lb})$$

Where:
 0.055 gr/dscf is the emission factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 10.4-1 version 4/78; and
 2,250 cfm is the cyclone collector flow rate.

 Emission Limitation:

Visible emissions of particulate emissions from the cyclone exhaust shall not exceed 20 percent opacity, as a 6-minute average.

Applicable Compliance Method:

If required, compliance with the visible fugitive emission limitation shall be determined by OAC rule 3745-17-03 (B)(3), in accordance with Method 9, as set forth in 40 CFR, Part 60, Appendix A.

Emission Limitation:

There shall be no visible emissions from the baghouse exhaust.

Applicable Compliance Methods:

If required, compliance with the no visible emission limit for the exhausts from the baghouse shall be determined using Method 22 of 40 CFR, Part 60, Appendix A.

Emission Limitation:

0.36 tons per year of particulate emissions from the wood waste unloading

Applicable Compliance Methods:

Compliance the annual allowable PE limitation may be determined by the following equations:

$$(SD) \times (2 \text{ lbs/ton}) \times (\text{ton}/2000 \text{ lb}) \times (1-75\%)$$

Where:

SD is the total tons of sawdust loaded out during the year, maximum of 1453 tons per year (i.e., 8584.4 cu.yd time 338.5 lbs/cu. yd.);

2 lbs/ton is the emission factor from AP-42, Table 10.4-1 (2/80) for sawdust load-out; and

75% is the control efficiency assigned to the drop height reduction measures in Reasonable Available Control Measures.

Emission Limitation:

Visible emissions of fugitive dust shall not exceed 20 percent opacity, as a three-minute average during load-out.

Applicable Compliance Method:

If required, compliance with the visible fugitive emission limitation shall be determined by OAC rule 3745-17-03 (B)(3), in accordance with Method 9, as set forth in 40 CFR, Part 60, Appendix A.

F. Miscellaneous Requirements

1. None