Facility ID: 0238000219 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

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
woodworking system including saws, planers, sanders and drills controlled by a primary cyclone and secondary 12,044 cfm, return-air baghouse, and the associated cyclone bin wood waste load-out	OAC rule 3745-31-05(A)(3) (PTI 02-22645 Effective 7/5/2007)	See A.2.a, A.2.b, A.2.e, A.2.f, B.1, B.2, B.3 and B.4 below.
	OAC rule 3745-17-08(B)	See A.2.c below.
	OAC rule 3745-17-07(B)	See A.2.d 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, 1.03 pounds per hour and 4.52 tons per year from the dust collector exhaust.
   There shall be no visible emissions from the dust collector exhaust.
   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 3745-17-08(B) do not apply to this emissions unit.
   This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
   Visible emissions of fugitive dust shall not exceed 20% opacity, as a 3-minute average during load-out.
   Fugitive PE shall not exceed 1.17 tons per year from the wood waste load-out operation.

B. **Operational Restrictions**

1. The pressure drop across the dust collector shall be maintained within the manufacturer's recommended range while the emissions unit is in operation, or within the pressure drop range established during the most recent compliance inspection or stack test that determined the emissions unit was in compliance.

2. The dust collector 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 wood waste from the cyclone hopper into trailers, every attempt shall be made to reduce or control fugitive dust emissions by utilizing a three sided enclosure, minimizing the drop height to the trailer, utilizing a trailer with high side boards, placing a covering over the discharge chute during the unloading process, or other fugitive dust reduction technique. The collection efficiency shall be considered adequate if there are no visible particulate emissions of fugitive dust from the during wood waste storage silo load-out in excess of 20% opacity, as a 3-minute average.

4. Fugitive particulate emissions shall be eliminated during unloading of wood waste from the baghouse into sealed drums.

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

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the dust

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 dust collector on a weekly basis.

2. When the dust collector is vented outside the building, the permittee shall perform weekly checks for any visible particulate emissions from the exhaust of the dust collector. The presence or absence of any visible emissions from the exhausts of the dust collectors 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 dust collector for this emissions unit are 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 three-side enclosure for the unloading area was 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. Those 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 dust collector did not comply with the allowable range specified above;

b. all periods of time that the three-sided enclosure for the load-out area 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 exhaust of the dust collector 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 6-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 1.03 pounds per hour of PE

Applicable Compliance Methods:
If required compliance with the PE limitations above shall be determined according Methods 1 - 5, 40 CFR 60, Appendix A.
Emission Limitation:
4.52 tons per year of PE

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

(0.055 gr/dscf) X (12,044 cfm) X (60 min/hr) X (8760 hr/yr) X (lb/7000 gr) X (ton/2000 lb) X (1-(0.99)

Where:
0.055 gr/dscf is the emission factor from AP-42, table 10.4-1 version 4/78; and
12,044 cfm is the dust collector flow rate;
99% is the manufacturer's guaranteed control efficiency.
Emission Limitation:
There shall be no visible emissions from the dust collector exhaust.

Applicable Compliance Methods:
Compliance with the no visible emission limit for the exhausts from the dust collector shall be determined using Test Method 22-like visible emission observations. (Although Test Method 22 applies to fugitive emissions units, the visible/no visible emissions observation technique of Test Method 22 can be applied to ducted emissions, i.e., Test Method 22-like visible emission observations.)
Emission Limitation:
Visible emissions of fugitive dust shall not exceed 20% opacity, as a 3-minute average during load-out.

Applicable Compliance Method:
Compliance with the visible fugitive emission limitation shall be determine 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:
1.17 tons per year of fugitive particulate emissions during load-out

Applicable Compliance Methods:
Compliance with this emission limitation shall be determined by the following equation:

(2.0 lbs/ton) X (17,304 cu. yd.) X (0.1693 ton/cu. yd.) X (ton/2000 lbs) X (1-0.60)

Where:
2.0 lbs particulate emissions per ton sawdust unloaded is the uncontrolled emission factor from AP-42, Table 10.4-2, (7/79);
17,304 cubic yards is the maximum sawdust throughput of the operation;
0.1693 tons per cubic yard is the mass of the sawdust; and
60% is the control efficiency for three sided enclosure from RACM, table 2.17-3.

F. **Miscellaneous Requirements**

1. None