

Facility ID: 1677100035 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: 1677100035 Emissions Unit ID: F001 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>
F001 (Wood Waste Storage Bin Loadout) transfer of wood waste from cyclone to off-site transport vehicle parked inside 3-sided, roof-covered bin with cyclone discharge storage bin roof collar and storage bin open-end cover to contain emissions of fugitive dust	OAC rule 3745-31-05 (A)(3) (PTI 16-02234)	10% opacity for fugitive dust, as a 3-minute average  10.8 pounds/day & 1.97 tons/year of particulate matter (PM)
	OAC rule 3745-17-07 (B) OAC rule 3745-17-08 (B)	See sections A.2 and B.1 through B.5 below for other requirements of OAC rule 3745-31-05 (A)(3). The emissions limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05 (A)(3).

**2. Additional Terms and Conditions**

- (a) The 10.8 pounds/day & 1.97 tons/year of PM emissions limits regulated per OAC rule 3745-31-05 (A)(3) are based upon accepted USEPA potential to emit procedures for this emissions unit. Therefore, no associated record keeping or reporting are required to demonstrate compliance with these emissions limits.

However, if any proposed change(s), such as with production capacity, operational procedures, physical design or configuration of the wood waste storage bin, transport trailer, cyclone, or any of the dust containment equipment or methods, or anything else that increase(s) the potential to emit, then the permittee shall apply for and obtain either a modification to the permit to install or a new final permit to install prior to the change(s).

The permittee shall properly install, or have installed, operate, and maintain a permanent 3-sided, roof-covered wood waste storage bin, with a movable cover to effectively seal the open end of the storage bin, and of sufficient size to completely confine a wood waste off-site transport vehicle, to adequately minimize or eliminate emissions of fugitive dust to the extent possible with good engineering design.

The cyclone shall discharge wood waste entirely within the storage bin directly into the transport vehicle confined in the storage bin. The cyclone discharge entering the storage bin through the storage bin roof shall be collared and sealed at the roof opening. All other potential emission points of fugitive dust shall be adequately covered and sealed.

The storage bin floor shall be constructed of hard materials, such as concrete, asphalt, brick, or clean stone, that do not contain mud, dirt, silt, or any other loose material likely to become air-borne and contribute to emissions of fugitive dust.

The wood waste off-site transport vehicle(s) or other material disposal or transfer equipment shall be designed with a tight-fitting cover to effectively contain the wood waste and seal the vehicle or equipment from the ambient air.

Only a contained and closed-to-the-ambient-air material transfer method of loading wood waste to the transport vehicle or other material disposal or transfer equipment, such as the procedures outlined in this permit, shall be performed.

**B. Operational Restrictions**

1. The open end of the storage bin shall be properly covered and sealed at all times, except momentarily when removing or replacing the off-site transport vehicle.

2. All operations in the wood shop shall cease before the storage bin open-end cover is unsecured and the transport vehicle is removed, and shall not resume until the transport vehicle is replaced and completely confined within the storage bin and the open end of the bin is again properly covered and sealed.
  3. Before the transport vehicle is removed from the storage bin, the vehicle shall be securely covered (and not opened until reaching its final off-site destination), and all precautions shall be taken to ensure all loose materials have been removed or washed from the outside of the vehicle and from the inside of the storage bin.
  4. Any loose material spilled outside of the storage bin or facility building and any mud or loose material deposited on public streets from the facility shall immediately be cleaned up to prevent emissions of fugitive dust.
  5. The permittee shall not employ a front-end loader or any other open-to-the-ambient-air material transfer equipment to remove wood waste or other loose materials from the storage bin or facility building to load the off-site transport vehicle or other disposal or transfer equipment.
- C. Monitoring and/or Record Keeping Requirements**
1. The permittee shall document all times the storage bin open-end cover was not properly employed and secured, except momentarily when removing or replacing the off-site transport vehicle; the transport vehicle cover was not properly employed and secured before removing the vehicle from the storage bin (and not opened until reaching its final off-site destination); and/or all wood shop operations did not cease prior to removing the transport vehicle from the storage bin.
  2. The permittee shall perform daily checks for any visible particulate emissions from this emissions unit. The presence or absence of any visible particulate emissions shall be noted daily in an operations log. If visible particulate emissions are observed, the permittee shall also note the following in an operations log:
    - a. The color of the emissions;
    - b. Whether the emissions are representative of normal operations;
    - c. If the emissions are not representative of normal operations, the determined cause of the abnormal emissions if a cause can be determined upon investigation;
    - d. The total duration of any visible emission incident; and
    - e. Any corrective actions taken to eliminate the visible emission.
- D. Reporting Requirements**
1. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record showing the storage bin open-end cover was not properly employed and secured, except momentarily when removing or replacing the off-site transport vehicle; the transport vehicle cover was not properly employed and secured before removing the vehicle from the storage bin (and not opened until reaching its final off-site destination); and/or all wood shop operations did not cease prior to removing the transport vehicle from the storage bin. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 30 days after the occurrence of the event(s).
  2. The permittee shall submit on a semi-annual basis a report which (a) identifies all days during which any abnormal visible particulate emissions were observed from the emissions unit and (b) describes the corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted by January 31 and July 31 of each year to the Director (District Office or local air agency).
- 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: 10% opacity for fugitive dust, as a 3-minute average  
  
Applicable Compliance Method: If required, compliance shall be determined by visible emission evaluations performed in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(3).  
Emission Limitations: 10.8 pounds/day & 1.97 tons/year of particulate matter  
  
Applicable Compliance Method: The above emissions limitations are based upon the potential to emit using application data and the USEPA - Fire 6.22 SCC 30703002 particulate matter emission factor specified below:  
  
D = PE; and  
Y = D(365 days/year)(1 ton/2000 lbs)  
  
Where,  
  
D = 10.8 pounds/day of particulate matter [daily potential emissions];  
Y = 1.97 tons/year of particulate matter [yearly potential emissions];  
P = 5.40 tons/day of wood waste processed [maximum capacity]; and  
E = 2.00 pounds of particulate matter/ton of wood waste processed [emission factor].
- F. Miscellaneous Requirements**
1. None

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**Part II - Special Terms and Conditions**

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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>
P001 (Wood Shop) manufacturing wood moldings, using molder, sander, planer, shaper, jointer, and saws, air emissions of particulate matter well-captured/contained (each work station hooded) and vented to and controlled by a baghouse exhausted inside building	OAC rule 3745-31-05 (A)(3) (PTI 16-02234)	10% opacity from any stack, as a 6-minute average  There shall be no visible particulate emissions from building ventilation.  0.69 pound/hour & 3.0 tons/year of particulate matter (PM)
	OAC rule 3745-17-07 (A) OAC rule 3745-17-11 (B)	See sections A.2 and B.1 below for additional requirements of OAC rule 3745-31-05 (A)(3).  The emissions limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05 (A)(3).

**2. Additional Terms and Conditions**

- (a) The 0.69 pound/hour & 3.0 tons/year of PM emissions limits regulated per OAC rule 3745-31-05 (A)(3) are based upon accepted USEPA potential to emit procedures for this emissions unit. Therefore, no associated record keeping or reporting are required to demonstrate compliance with these emissions limits.

However, if any proposed change(s), such as with production capacity, operational procedures, physical design or configuration of the work station hoods and/or associated ductwork, or the baghouse, or anything else that increase(s) the potential to emit, then the permittee shall apply for and obtain either a modification to the permit to install or a new final permit to install prior to the change(s). The permittee shall properly install, or have properly installed, adjust, operate, and maintain a baghouse (fabric filter system), hoods, ductwork, fan, and any other equipment necessary to capture, contain, and vent air emissions of particulate matter to the air pollution control device serving this emissions unit, in accordance with the manufacturer's recommendations, instructions, and operating manuals, and to the extent possible with good engineering design. Any spillage of sawdust or wood waste from cleaning or maintenance of the fabric filter system shall be promptly cleaned up to reduce the risk of fugitive dust emissions. Also, general housekeeping shall be performed in the work shop, as needed, to minimize or eliminate emissions of fugitive dust.

**B. Operational Restrictions**

1. The fabric filter system and work station hoods serving this emissions unit shall be employed all times the emissions unit is in operation.

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

1. The permittee shall document all times the fabric filter system and/or work station hoods serving this emissions unit were/was not employed when the emissions unit was in operation.
2. The permittee shall perform daily checks, when the emission unit is in operation, for any visible particulate emissions from the fabric filter system and/or work station hoods serving this emission unit. The presence or absence of any visible particulate emissions shall be noted daily in an operations log. If visible particulate emissions are observed, the permittee shall also note the following in an operations log:
  - a. The color of the emissions;
  - b. Whether the emissions are representative of normal operations;
  - c. If the emissions are not representative of normal operations, the determined cause of the abnormal emissions if a cause can be determined upon investigation;
  - d. The total duration of any visible emission incident; and
  - e. Any corrective actions taken to eliminate the visible emission.

**D. Reporting Requirements**

1. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record in

which the fabric filter system serving this emissions unit was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 30 days after the event occurs.

2. The permittee shall submit on a semi-annual basis a report which (a) identifies all days during which any abnormal visible particulate emissions were observed from the fabric filter system and (b) describes the corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted by January 31 and July 31 of each year to the Director (District Office or local air agency).

**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: 10% opacity from any stack, as a 6-minute average

Applicable Compliance Method: If required, compliance shall be determined by visible emission evaluations performed in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(1).  
Emission Limitation: 0.69 pound/hour & 3.0 tons/year of particulate matter (PM)

Applicable Compliance Method: The above PM emissions limitations are based upon the controlled potential to emit, as demonstrated in the equations below using a mass balance approach specified in the application:

$$H = VO(60 \text{ minutes/hour})(1 \text{ pound}/7000 \text{ grains}); \text{ and}$$
$$Y = H(8760 \text{ hours/yr})(1 \text{ ton}/2000 \text{ pounds})$$

Where,

$$H = 0.69 \text{ pound/hour of PM [hourly controlled potential emissions];}$$
$$Y = 3.0 \text{ tons/year [yearly controlled potential emissions];}$$
$$V = 8000 \text{ DSCFM [maximum fabric filter system exhaust flow]; and}$$
$$O = 0.010 \text{ grain of PM/DSCFM [assumed maximum outlet loading of fabric filter system].}$$

DSCFM = dry standard cubic feet per minute  
Emission Limitation: No visible particulate emissions from building ventilation

Applicable Compliance Method: Daily visual checks

**F. Miscellaneous Requirements**

1. None