

Facility ID: 0238000004 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 F001](#)
- [Go to Part II for Emissions Unit F002](#)
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Facility ID: 0238000004 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 - Grinder/chipper to process wood scraps for sawdust fired boiler, controlled by an enclosure. | OAC rule 3745-31-05(A)(3) (PTI 02-14306 effective 12/5/00) | See A.2.a and A.2.b below. |
| | OAC rule 3745-17-08 | The requirements of this rule are not applicable as the emissions unit is located outside an Appendix A area. |
| | OAC rule 3745-17-07(B)(7)(e) | The requirements of this rule are not applicable as the emissions unit is located outside an Appendix A area |

2. Additional Terms and Conditions

- (a) Particulate emissions shall not exceed 2.72 tons per year.
Visible particulate emissions shall not exceed 5% from any building opening, on a three-minute average.

B. Operational Restrictions

1. The permittee shall operate the grinder/ chipper only in the building enclosure.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records that document any time periods when the emissions unit was operated outside the building enclosure.

D. Reporting Requirements

1. The permittee shall notify the Director (Ohio EPA, Northeast District Office) in writing of any daily record showing that the emissions unit was operated outside the building enclosure. The notification shall include a copy of such record and shall be sent to the Director (Ohio EPA, Northeast District Office) within 30 days after the event occurs.

E. Testing Requirements

1. Compliance with the allowable emissions limitations in Section A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitation:
2.72 tons per year of particulate emissions

Applicable Compliance Method:

Compliance with this emissions limit shall be the sum of the emissions from the grinder and from the chipper and be determined according to the following equation:

$$EPM\ yr = [(19,437\ tons/yr) \times (0.35\ lb/ton\ wood\ waste) \times (ton/2000\ lbs) \times (1-0.60)] + [(19,437\ tons/yr) \times (0.35\ lb/ton\ wood\ waste) \times (ton/2000\ lbs) \times (1-0.60)]$$

where:

19,437 tons per year is the maximum annual throughput;

0.35 lb/ton wood is the emission factor from RACM Chapter 2.17, Woodworking, table 1, sawing; and

60% is the control factor for a three sided enclosure according to RACM Chapter 2.17, Woodworking, table 3.

Emissions Limitation:
Visible emissions shall not exceed 5% opacity from any opening, on a 3-minute average.

Applicable Compliance Method:
Compliance shall be determined by US EPA Method 9, (40 CFR Part 60, Appendix A).

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> |
|---|---|---|
| F002 - material handling of sawdust for fuel in the rendering plant boiler including truck unloading, sawdust storage building and sawdust storage silo with a silo vent controlled by a cyclone. | OAC rule 3745-31-05(A)(3) (PTI 02-14306 effective 12/5/00) | See A.2.a, A.2.b and A.2.c below. |
| | OAC rule 3745-17-08 | The requirements of this rule are not applicable as the emissions unit is located outside an Appendix A area. |
| | OAC rule 3745-17-07(B)(7)(e) | The requirements of this rule are not applicable as the emissions unit is located outside an Appendix A area. |

2. **Additional Terms and Conditions**
 - (a) Particulate emissions shall not exceed 14.58 tons per year.
There shall be no visible particulate emissions from any sawdust storage pile and the sawdust storage building except for thirteen minutes during any sixty-minute period.
Visible particulate emissions shall not exceed 5% opacity as a three-minute average from the sawdust silo vent.

B. Operational Restrictions

1. All sawdust shall be stored inside the enclosure.
2. The sawdust silo vent shall be controlled by a cyclone or similar control device at all times the sawdust silo is loaded or unloaded.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records that document all time periods when the sawdust piles were stored outside the sawdust storage building.
2. The permittee shall maintain daily records that document all time periods when the cyclone was not in service when the emissions unit was in operation.

D. Reporting Requirements

1. The permittee shall notify the Director (Ohio EPA, Northeast District Office) in writing of any daily record showing that the sawdust piles were stored outside the sawdust storage building. The notification shall include a copy of such record and shall be sent to the Director (Ohio EPA, Northeast District Office) within 30 days after the event occurs.
2. The permittee shall notify the Director (Ohio EPA, Northeast District Office) in writing of any daily record showing that the cyclone 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 (Ohio EPA, Northeast District Office) within 30 days after

the event occurs.

E. Testing Requirements

1. Compliance with the allowable emissions limitations in Section A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitation:
14.58 tons per year of particulate emissions

Applicable Compliance Method:
Compliance with this emissions limit shall be the sum of particulate emissions from the truck unloading, sawdust handling and the sawdust storage silo vent, and shall be determined according to the following equation:

$$EPM\ yr = [(19,437\ tons/yr) \times (1.0\ lb/ton\ sawdust) \times (ton/2000\ lbs)] + [(19,437\ tons/yr) \times (1.0\ lb/ton\ sawdust) \times (ton/2000\ lbs) \times (1-0.60)] + [(19,437\ tons/yr) \times (1.0\ lb/ton\ wood\ waste) \times (ton/2000\ lbs) \times (1-.90)]$$

where:
19,437 tons per year is the maximum annual throughput;
1.0 lb/ton wood is the emission factor from RACM Chapter 2.17, Woodworking, table 1, for sawdust pile loading, unloading and storage and wood waste storage bin vent;
60% is the control efficiency for a three sided enclosure according to RACM Chapter 2.17, Woodworking, table 3;
1.0 lb/ton wood is the emission factor from RACM Chapter 2.17, Woodworking, table 1, wood waste storage bin vent; and
90% is the assumed control efficiency for cyclone controlling the sawdust silo vent.
Emissions Limitation:
No visible particulate emissions from any sawdust storage pile, the sawdust storage building and the sawdust storage silo except for thirteen minutes during any sixty-minute period.

Applicable Compliance Method:
Compliance shall be determined according to OAC rule 3745-17-03(B)(4), US EPA Method 22, (40 CFR Part 60, Appendix A).
Emissions Limitation:
Visible particulate emissions shall not exceed 5% opacity as a three-minute average from the sawdust silo vent.

Applicable Compliance Method:
Compliance shall be determined according to OAC rule 3745-17-03(B), US EPA Method 9, (40 CFR 60, Appendix A).

F. Miscellaneous Requirements

1. None

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 - (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> |
|---|--------------------------------------|--|
|---|--------------------------------------|--|

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| Feather rendering equipment including two batch rendering vessels, a dryer and a grinder; controlled by a air cooled vapor condenser and boiler box. | OAC rule 3745-15-07 | |
|--|---------------------|--|

2. Additional Terms and Conditions

- (a) The permittee shall comply with the requirements listed in the Final Findings and Orders of the Director of the Ohio EPA as entered in the Director's Journal August 4, 1994, as modified on December 16,

2005.

B. Operational Restrictions

1. The permittee shall vent all exhaust gases from the feather rendering process to a condenser.
2. The permittee shall vent all non-condensable fumes from the feather plant to the boiler's firebox for combustion.
3. The permittee shall properly operate and use the incineration system so that all fumes from the condenser will be collected, transported and injected into the boiler firebox for incineration during cooking and drying of the product.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain a feather processing operations log and shall record the following:
 - a. all times the condenser is not operating while the emissions unit is in operation;
 - b. all times the noncondensable fumes are not collected, transported and injected into the boiler firebox for incineration; and
 - c. the date and results of all maintenance checks of the control devices.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the emissions from the feather rendering process were not controlled by the condenser and boiler firebox while the emissions unit was in operation.
2. All deviation (excursion) reports shall be submitted in accordance with section A.1.c of the General Terms and Condition of this permit.

E. Testing Requirements

1. None

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> |
|---|--------------------------------------|--|
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| Offal rendering process including crusher, mixer, evaporator, separator, condenser | OAC rule 3745-15-07 | |
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2. Additional Terms and Conditions

- (a) The permittee shall comply with the requirements listed in the Final Findings and Orders of the Director of the Ohio EPA as entered in the Director's Journal August 4, 1994, as modified on December 16, 2005.

B. Operational Restrictions

1. The permittee shall vent all exhaust gases from the continuous cooker to an adequately sized stainless steel condenser, with the noncondensable fumes vented to the boiler's firebox. The condenser shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s).
2. The permittee shall utilize localized hooding to capture fugitive fumes from the press and centrifuge and vent the

fumes to the boiler's firebox for combustion.

3. The permittee shall operate a fuel feed fan that will vent air from within the continuous cooker building to the boiler's firebox such that there will be approximately four "room changes" per hour in the continuous cooker building.
4. The permittee shall close access doors and windows during routine operations to the extent necessary to ensure that air flow through the building does not interfere with collection of high intensity odors by the fuel feed fan.
5. The permittee shall properly operate and use the incineration system so that all fumes from the condenser will be collected, transported and injected into the boiler firebox for incineration during the offal rendering process.
6. The permittee shall store all raw materials inside a building unless equipment breakdown occurs or if unusable materials are mistakenly delivered to the site. Raw materials shall be received daily in the outdoor back dock and shall be processed daily.
7. The permittee shall process only fresh materials.
8. The permittee shall clean all processing equipment with hot water and disinfectant, daily.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain an offal processing operations log and shall record the following:
 - a. all times the fumes from the cooker and dryers are not controlled by the condenser while the emissions unit is in operation;
 - b. all times the noncondensable fumes from the condenser, press and centrifuge are not collected, transported and injected into the boiler firebox for incineration;
 - c. all times the offal rendering building air is not vented to the boiler firebox;
 - d. the date and results of all maintenance checks of the condenser and incineration system;
 - e. all times raw material was stored outside;
 - f. all times product was accepted and processed that was not fresh; and
 - g. all times the processing equipment was not cleaned with hot water and disinfectant, daily.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the emissions from the offal rendering process, (cooker, dryer, press, centrifuge, building), were not controlled by the condenser and boiler firebox while the emissions unit was in operation.
2. All deviation (excursion) reports shall be submitted in accordance with the General Terms and Conditions of this permit.
3. The permittee shall notify the Director (Ohio EPA, Northeast District Office) in writing of any daily record showing that:
 - a. raw material was stored outside the building;
 - b. all times product was accepted and processed that was not fresh; and
 - c. all times the processing equipment was not cleaned with hot water and disinfectant, daily.

The notification shall include a copy of such record and shall be sent to the Director (Ohio EPA, Northeast District Office) within 30 days after the event occurs.

E. Testing Requirements

1. None

F. Miscellaneous Requirements

1. None