



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL MODIFICATION
HAMILTON COUNTY**

CERTIFIED MAIL

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 14-04319

DATE: 1/02/2004

Hillshire Farm Kahns
Jonathan Zimmerman
3241 Spring Grove Ave
Cincinnati, OH 45225

Enclosed Please find a modification to the Ohio EPA Permit To Install referenced above which will modify the terms and conditions.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, Ohio 43215

Sincerely,

Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

CC: USEPA

HCDES



**Permit To Install
Terms and Conditions**

**Issue Date: 1/02/2004
Effective Date: 1/02/2004**

FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 14-04319

Application Number: 14-04319
APS Premise Number: 1431071268
Permit Fee: **\$5850**
Name of Facility: Hillshire Farm Kahns
Person to Contact: Jonathan Zimmerman
Address: 3241 Spring Grove Ave
Cincinnati, OH 45225

Location of proposed air contaminant source(s) [emissions unit(s)]:
**3241 Spring Grove Ave
Cincinnati, Ohio**

Description of proposed emissions unit(s):
Administrative modification to PTI 14-04319 issued on November 5, 1997 for emission units P002-P003 and P007-P028.

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described source(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.


Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio

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Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

10. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

11. Applicability

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

12. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

13. Source Operation and Operating Permit Requirements After Completion of Construction

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or

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modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the source(s) covered by this permit.

14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
PM/PM-10	35.2
SO ₂	0.3
NO _x	9.3
CO	39.9
OC	29.5

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Hillsh

PTI A

Modification Issued: 1/02/2004

Emissions Unit ID: P002

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 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>
P002 - Processed Meat Smokehouse 101 Modification	OAC rule 3745-31-05(A)(3)	See terms A.2.a. and A.2.b. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
	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)(1)	See term A.2.d.

2. Additional Terms and Conditions**2.a** Daily emissions shall not exceed the following:

- a. 8.1 pounds of particulate/PM10;
- b. 0.1 pound of sulfur dioxide;
- c. 2.3 pound of nitrogen oxides;
- d. 6.8 pounds of organic compounds; and
- e. 9.1 pounds of carbon monoxide.

The daily emission limitations outlined are based upon the emissions unit's PTE.

Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.b** The combined annual emissions from emissions units P002, P003, and P007 through P028 combined shall not exceed the following:
- a. 35.2 tons of particulate/PM10;
 - b. 0.3 ton of sulfur dioxide;
 - c. 9.3 tons of nitrogen oxides;
 - d. 29.5 tons of organic compounds; and
 - e. 39.9 tons of carbon monoxide.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emissions limitations and record keeping requirements.
- 2.d** Visible particulate emissions from any exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;
 - c. The calculated emission rate of nitrogen oxides, in tons;
 - d. The calculated emission rate of particulate/PM10, in tons;
 - e. The calculated emission rate of carbon monoxide, in tons; and
 - f. The calculated emission rate of organic compounds, in tons.

D. Reporting Requirements

1. The permittee shall submit annual reports of the following information for emissions units P002, P003, P007 through P028:

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PTI A

Modification Issued: 1/02/2004

Emissions Unit ID: **P002**

- a. The wood chip usage rate;
- b. The calculated emission rate of sulfur dioxides, in tons;
- c. The calculated emission rate of nitrogen oxides, in tons;
- d. The calculated emission rate of particulate/PM10, in tons;
- e. The calculated emission rate of carbon monoxide, in tons; and
- f. The calculated emission rate of organic compounds, in tons.

These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the particulate and organic compound emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Meat Smokehouses, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY PM} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY PM}_{10} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - c.
$$\text{TPY OC} = [(44 \text{ Lb OC/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (11 \text{ Lbs OC/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.5 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

2. Compliance with the sulfur dioxide and nitrogen oxide emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Residential Wood Fireplaces, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY SO}_2 = [(0.4 \text{ Lb SO}_2/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (0.6 \text{ Lbs SO}_2/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.018 \text{ Lbs SO}_2/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY NO}_x = [(2.6 \text{ Lb NO}_x/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (100 \text{ Lbs NO}_x/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (14 \text{ Lbs NO}_x/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

3. Compliance with the carbon monoxide emission limitation for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from a stack test conducted on 3/6/99 at a similar facility:
 - a.
$$\text{TPY CO} = [(60.53 \text{ Lbs CO/Ton Wood Chips Burned Lbs} \times \text{Ton Wood Chips Burned/Yr}) / (2000 \text{ Lbs/Ton})].$$

Emissions Unit ID: **P002**

4. If testing is required to determine compliance with the allowable emission limitations for emissions units P002, P003, P007 through P028 then testing shall be conducted using the following method:
 - a. For PM, Method 5 of 40 CFR Part 60, Appendix A shall be used.
 - b. For PM10, Method 201 of 40 CFR Part 51, Appendix M shall be used.
 - c. For SO₂, Method 6 of 40 CFR Part 60, Appendix A shall be used.
 - d. For NO_x, Method 7 of 40 CFR Part 60, Appendix A shall be used.
 - e. For OC, Method 25 of 40 CFR Part 60, Appendix A shall be used.
 - f. For CO, Method 10 of 40 CFR Part 60, Appendix A shall be used.
5. Compliance with the visible particulate emission limitation in OAC rule 3745-17-07(A)(1) shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. The terms and conditions listed above supercede those of PTI 14-04319 as issued on November 5, 1997.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P003 - Processed Meat Smokehouse 102 Modification	OAC rule 3745-31-05(A)(3)	See terms A.2.a. and A.2.b.
	OAC rule 3745-17-11	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). See term A.2.d.

2. Additional Terms and Conditions

2.a Daily emissions shall not exceed the following:

- a. 8.1 pounds of particulate/PM10;
- b. 0.1 pound of sulfur dioxide;
- c. 2.3 pound of nitrogen oxides;
- d. 6.8 pounds of organic compounds; and
- e. 9.1 pounds of carbon monoxide.

The daily emission limitations outlined are based upon the emissions unit's PTE.

Emissions Unit ID: P003

Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.b** The combined annual emissions from emissions units P002, P003, and P007 through P028 combined shall not exceed the following:
- a. 35.2 tons of particulate/PM10;
 - b. 0.3 ton of sulfur dioxide;
 - c. 9.3 tons of nitrogen oxides;
 - d. 29.5 tons of organic compounds; and
 - e. 39.9 tons of carbon monoxide.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emissions limitations and record keeping requirements.
- 2.d** Visible particulate emissions from any exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;
 - c. The calculated emission rate of nitrogen oxides, in tons;
 - d. The calculated emission rate of particulate/PM10, in tons;
 - e. The calculated emission rate of carbon monoxide, in tons; and
 - f. The calculated emission rate of organic compounds, in tons.

D. Reporting Requirements

1. The permittee shall submit annual reports of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;

- b. The calculated emission rate of sulfur dioxides, in tons;
- c. The calculated emission rate of nitrogen oxides, in tons;
- d. The calculated emission rate of particulate/PM10, in tons;
- e. The calculated emission rate of carbon monoxide, in tons; and
- f. The calculated emission rate of organic compounds, in tons.

These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the particulate and organic compound emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Meat Smokehouses, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY PM} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY PM}_{10} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - c.
$$\text{TPY OC} = [(44 \text{ Lb OC/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (11 \text{ Lbs OC/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.5 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

2. Compliance with the sulfur dioxide and nitrogen oxide emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Residential Wood Fireplaces, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY SO}_2 = [(0.4 \text{ Lb SO}_2/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (0.6 \text{ Lbs SO}_2/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.018 \text{ Lbs SO}_2/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY NO}_x = [(2.6 \text{ Lb NO}_x/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (100 \text{ Lbs NO}_x/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (14 \text{ Lbs NO}_x/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

3. Compliance with the carbon monoxide emission limitation for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from a stack test conducted on 3/6/99 at a similar facility:
 - a.
$$\text{TPY CO} = [(60.53 \text{ Lbs CO/Ton Wood Chips Burned Lbs} \times \text{Ton Wood Chips Burned/Yr}) / (2000 \text{ Lbs/Ton})].$$

Emissions Unit ID: **P003**

4. If testing is required to determine compliance with the allowable emission limitations for emissions units P002, P003, P007 through P028 then testing shall be conducted using the following method:
 - a. For PM, Method 5 of 40 CFR Part 60, Appendix A shall be used.
 - b. For PM10, Method 201 of 40 CFR Part 51, Appendix M shall be used.
 - c. For SO₂, Method 6 of 40 CFR Part 60, Appendix A shall be used.
 - d. For NO_x, Method 7 of 40 CFR Part 60, Appendix A shall be used.
 - e. For OC, Method 25 of 40 CFR Part 60, Appendix A shall be used.
 - f. For CO, Method 10 of 40 CFR Part 60, Appendix A shall be used.
5. Compliance with the visible particulate emission limitation in OAC rule 3745-17-07(A)(1) shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. The terms and conditions listed above supercede those of PTI 14-04319 as issued on November 5, 1997.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P007 - Processed Meat Smokehouse 103 Modification	OAC rule 3745-31-05(A)(3)	See terms A.2.a. and A.2.b.
	OAC rule 3745-17-11	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1).
	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). See term A.2.d.

2. Additional Terms and Conditions

2.a Daily emissions shall not exceed the following:

- a. 8.1 pounds of particulate/PM10;
- b. 0.1 pound of sulfur dioxide;
- c. 2.3 pound of nitrogen oxides;
- d. 6.8 pounds of organic compounds; and
- e. 9.1 pounds of carbon monoxide.

The daily emission limitations outlined are based upon the emissions unit's PTE.

Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.b** The combined annual emissions from emissions units P002, P003, and P007 through P028 combined shall not exceed the following:
- a. 35.2 tons of particulate/PM10;
 - b. 0.3 ton of sulfur dioxide;
 - c. 9.3 tons of nitrogen oxides;
 - d. 29.5 tons of organic compounds; and
 - e. 39.9 tons of carbon monoxide.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emissions limitations and record keeping requirements.
- 2.d** Visible particulate emissions from any exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;
 - c. The calculated emission rate of nitrogen oxides, in tons;
 - d. The calculated emission rate of particulate/PM10, in tons;
 - e. The calculated emission rate of carbon monoxide, in tons; and
 - f. The calculated emission rate of organic compounds, in tons.

D. Reporting Requirements

1. The permittee shall submit annual reports of the following information for emissions units P002, P003, P007 through P028:

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- a. The wood chip usage rate;
- b. The calculated emission rate of sulfur dioxides, in tons;
- c. The calculated emission rate of nitrogen oxides, in tons;
- d. The calculated emission rate of particulate/PM10, in tons;
- e. The calculated emission rate of carbon monoxide, in tons; and
- f. The calculated emission rate of organic compounds, in tons.

These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the particulate and organic compound emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Meat Smokehouses, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY PM} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY PM}_{10} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - c.
$$\text{TPY OC} = [(44 \text{ Lb OC/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (11 \text{ Lbs OC/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.5 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

2. Compliance with the sulfur dioxide and nitrogen oxide emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Residential Wood Fireplaces, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY SO}_2 = [(0.4 \text{ Lb SO}_2/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (0.6 \text{ Lbs SO}_2/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.018 \text{ Lbs SO}_2/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY NO}_x = [(2.6 \text{ Lb NO}_x/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (100 \text{ Lbs NO}_x/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (14 \text{ Lbs NO}_x/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

3. Compliance with the carbon monoxide emission limitation for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from a stack test conducted on 3/6/99 at a similar facility:
 - a.
$$\text{TPY CO} = [(60.53 \text{ Lbs CO/Ton Wood Chips Burned Lbs} \times \text{Ton Wood Chips Burned/Yr}) / (2000 \text{ Lbs/Ton})].$$

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4. If testing is required to determine compliance with the allowable emission limitations for emissions units P002, P003, P007 through P028 then testing shall be conducted using the following method:
 - a. For PM, Method 5 of 40 CFR Part 60, Appendix A shall be used.
 - b. For PM10, Method 201 of 40 CFR Part 51, Appendix M shall be used.
 - c. For SO₂, Method 6 of 40 CFR Part 60, Appendix A shall be used.
 - d. For NO_x, Method 7 of 40 CFR Part 60, Appendix A shall be used.
 - e. For OC, Method 25 of 40 CFR Part 60, Appendix A shall be used.
 - f. For CO, Method 10 of 40 CFR Part 60, Appendix A shall be used.
5. Compliance with the visible particulate emission limitation in OAC rule 3745-17-07(A)(1) shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. The terms and conditions listed above supercede those of PTI 14-04319 as issued on November 5, 1997.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P008 - Processed Meat Smokehouse 104 Modification	OAC rule 3745-31-05(A)(3) OAC rule 3745-17-11 OAC rule 3745-17-07(A)(1)	See terms A.2.a. and A.2.b. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1). The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). See term A.2.d.

2. Additional Terms and Conditions

2.a Daily emissions shall not exceed the following:

- a. 8.1 pounds of particulate/PM10;
- b. 0.1 pound of sulfur dioxide;
- c. 2.3 pound of nitrogen oxides;
- d. 6.8 pounds of organic compounds; and
- e. 9.1 pounds of carbon monoxide.

The daily emission limitations outlined are based upon the emissions unit's PTE. Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.b** The combined annual emissions from emissions units P002, P003, and P007 through P028 combined shall not exceed the following:
- a. 35.2 tons of particulate/PM10;
 - b. 0.3 ton of sulfur dioxide;
 - c. 9.3 tons of nitrogen oxides;
 - d. 29.5 tons of organic compounds; and
 - e. 39.9 tons of carbon monoxide.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emissions limitations and record keeping requirements.
- 2.d** Visible particulate emissions from any exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;
 - c. The calculated emission rate of nitrogen oxides, in tons;
 - d. The calculated emission rate of particulate/PM10, in tons;
 - e. The calculated emission rate of carbon monoxide, in tons; and
 - f. The calculated emission rate of organic compounds, in tons.

D. Reporting Requirements

1. The permittee shall submit annual reports of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;

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- c. The calculated emission rate of nitrogen oxides, in tons;
- d. The calculated emission rate of particulate/PM10, in tons;
- e. The calculated emission rate of carbon monoxide, in tons; and
- f. The calculated emission rate of organic compounds, in tons.

These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the particulate and organic compound emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Meat Smokehouses, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY PM} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY PM}_{10} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - c.
$$\text{TPY OC} = [(44 \text{ Lb OC/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (11 \text{ Lbs OC/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.5 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

2. Compliance with the sulfur dioxide and nitrogen oxide emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Residential Wood Fireplaces, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY SO}_2 = [(0.4 \text{ Lb SO}_2/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (0.6 \text{ Lbs SO}_2/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.018 \text{ Lbs SO}_2/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY NO}_x = [(2.6 \text{ Lb NO}_x/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (100 \text{ Lbs NO}_x/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (14 \text{ Lbs NO}_x/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

3. Compliance with the carbon monoxide emission limitation for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from a stack test conducted on 3/6/99 at a similar facility:
 - a.
$$\text{TPY CO} = [(60.53 \text{ Lbs CO/Ton Wood Chips Burned Lbs} \times \text{Ton Wood Chips Burned/Yr}) / (2000 \text{ Lbs/Ton})].$$

Modification Issued: 1/02/2004

4. If testing is required to determine compliance with the allowable emission limitations for emissions units P002, P003, P007 through P028 then testing shall be conducted using the following method:
 - a. For PM, Method 5 of 40 CFR Part 60, Appendix A shall be used.
 - b. For PM10, Method 201 of 40 CFR Part 51, Appendix M shall be used.
 - c. For SO₂, Method 6 of 40 CFR Part 60, Appendix A shall be used.
 - d. For NO_x, Method 7 of 40 CFR Part 60, Appendix A shall be used.
 - e. For OC, Method 25 of 40 CFR Part 60, Appendix A shall be used.
 - f. For CO, Method 10 of 40 CFR Part 60, Appendix A shall be used.
5. Compliance with the visible particulate emission limitation in OAC rule 3745-17-07(A)(1) shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. The terms and conditions listed above supercede those of PTI 14-04319 as issued on November 5, 1997.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P009 - Processed Meat Smokehouse 105 Modification	OAC rule 3745-31-05(A)(3) OAC rule 3745-17-11 OAC rule 3745-17-07(A)(1)	See terms A.2.a. and A.2.b. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1). The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). See term A.2.d.

2. Additional Terms and Conditions

2.a Daily emissions shall not exceed the following:

- a. 8.1 pounds of particulate/PM10;
- b. 0.1 pound of sulfur dioxide;
- c. 2.3 pound of nitrogen oxides;
- d. 6.8 pounds of organic compounds; and
- e. 9.1 pounds of carbon monoxide.

The daily emission limitations outlined are based upon the emissions unit's PTE. Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.b** The combined annual emissions from emissions units P002, P003, and P007 through P028 combined shall not exceed the following:
- a. 35.2 tons of particulate/PM10;
 - b. 0.3 ton of sulfur dioxide;
 - c. 9.3 tons of nitrogen oxides;
 - d. 29.5 tons of organic compounds; and
 - e. 39.9 tons of carbon monoxide.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emissions limitations and record keeping requirements.
- 2.d** Visible particulate emissions from any exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;
 - c. The calculated emission rate of nitrogen oxides, in tons;
 - d. The calculated emission rate of particulate/PM10, in tons;
 - e. The calculated emission rate of carbon monoxide, in tons; and
 - f. The calculated emission rate of organic compounds, in tons.

D. Reporting Requirements

1. The permittee shall submit annual reports of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;

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- b. The calculated emission rate of sulfur dioxides, in tons;
- c. The calculated emission rate of nitrogen oxides, in tons;
- d. The calculated emission rate of particulate/PM10, in tons;
- e. The calculated emission rate of carbon monoxide, in tons; and
- f. The calculated emission rate of organic compounds, in tons.

These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the particulate and organic compound emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Meat Smokehouses, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY PM} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY PM}_{10} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - c.
$$\text{TPY OC} = [(44 \text{ Lb OC/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (11 \text{ Lbs OC/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.5 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

2. Compliance with the sulfur dioxide and nitrogen oxide emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Residential Wood Fireplaces, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY SO}_2 = [(0.4 \text{ Lb SO}_2/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (0.6 \text{ Lbs SO}_2/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.018 \text{ Lbs SO}_2/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY NO}_x = [(2.6 \text{ Lb NO}_x/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (100 \text{ Lbs NO}_x/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (14 \text{ Lbs NO}_x/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

3. Compliance with the carbon monoxide emission limitation for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from a stack test conducted on 3/6/99 at a similar facility:
 - a.
$$\text{TPY CO} = [(60.53 \text{ Lbs CO/Ton Wood Chips Burned Lbs} \times \text{Ton Wood Chips Burned/Yr}) / (2000 \text{ Lbs/Ton})].$$

Emissions Unit ID: **P009**

4. If testing is required to determine compliance with the allowable emission limitations for emissions units P002, P003, P007 through P028 then testing shall be conducted using the following method:
 - a. For PM, Method 5 of 40 CFR Part 60, Appendix A shall be used.
 - b. For PM10, Method 201 of 40 CFR Part 51, Appendix M shall be used.
 - c. For SO₂, Method 6 of 40 CFR Part 60, Appendix A shall be used.
 - d. For NO_x, Method 7 of 40 CFR Part 60, Appendix A shall be used.
 - e. For OC, Method 25 of 40 CFR Part 60, Appendix A shall be used.
 - f. For CO, Method 10 of 40 CFR Part 60, Appendix A shall be used.
5. Compliance with the visible particulate emission limitation in OAC rule 3745-17-07(A)(1) shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. The terms and conditions listed above supercede those of PTIs 14-04319 as issued on November 5, 1997.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

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PTI A

Modification Issued: 1/02/2004

Emissions Unit ID: P010

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 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>
P010 - Processed Meat Smokehouse 106 Modification	OAC rule 3745-31-05(A)(3)	See terms A.2.a. and A.2.b.
	OAC rule 3745-17-11	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
		See term A.2.d.

2. Additional Terms and Conditions**2.a** Daily emissions shall not exceed the following:

- a. 8.0 pounds of particulate/PM10;
- b. 0.1 pound of sulfur dioxide;
- c. 0.4 pound of nitrogen oxides;
- d. 6.6 pounds of organic compounds; and
- e. 9.1 pounds of carbon monoxide.

The daily emission limitations outlined are based upon the emissions unit's PTE.

Emissions Unit ID: P010

Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.b** The combined annual emissions from emissions units P002, P003, and P007 through P028 combined shall not exceed the following:
- a. 35.2 tons of particulate/PM10;
 - b. 0.3 ton of sulfur dioxide;
 - c. 9.3 tons of nitrogen oxides;
 - d. 29.5 tons of organic compounds; and
 - e. 39.9 tons of carbon monoxide.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emissions limitations and record keeping requirements.
- 2.d** Visible particulate emissions from any exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;
 - c. The calculated emission rate of nitrogen oxides, in tons;
 - d. The calculated emission rate of particulate/PM10, in tons;
 - e. The calculated emission rate of carbon monoxide, in tons; and
 - f. The calculated emission rate of organic compounds, in tons.

D. Reporting Requirements

1. The permittee shall submit annual reports of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;

- b. The calculated emission rate of sulfur dioxides, in tons;
- c. The calculated emission rate of nitrogen oxides, in tons;
- d. The calculated emission rate of particulate/PM10, in tons;
- e. The calculated emission rate of carbon monoxide, in tons; and
- f. The calculated emission rate of organic compounds, in tons.

These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the particulate and organic compound emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Meat Smokehouses, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY PM} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY PM}_{10} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - c.
$$\text{TPY OC} = [(44 \text{ Lb OC/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (11 \text{ Lbs OC/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.5 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
2. Compliance with the sulfur dioxide and nitrogen oxide emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Residential Wood Fireplaces, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY SO}_2 = [(0.4 \text{ Lb SO}_2/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (0.6 \text{ Lbs SO}_2/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.018 \text{ Lbs SO}_2/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY NO}_x = [(2.6 \text{ Lb NO}_x/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (100 \text{ Lbs NO}_x/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (14 \text{ Lbs NO}_x/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
3. Compliance with the carbon monoxide emission limitation for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from a stack test conducted on 3/6/99 at a similar facility:
 - a.
$$\text{TPY CO} = [(60.53 \text{ Lbs CO/Ton Wood Chips Burned Lbs} \times \text{Ton Wood Chips Burned/Yr}) / (2000 \text{ Lbs/Ton})].$$

Emissions Unit ID: **P010**

4. If testing is required to determine compliance with the allowable emission limitations for emissions units P002, P003, P007 through P028 then testing shall be conducted using the following method:
 - a. For PM, Method 5 of 40 CFR Part 60, Appendix A shall be used.
 - b. For PM10, Method 201 of 40 CFR Part 51, Appendix M shall be used.
 - c. For SO₂, Method 6 of 40 CFR Part 60, Appendix A shall be used.
 - d. For NO_x, Method 7 of 40 CFR Part 60, Appendix A shall be used.
 - e. For OC, Method 25 of 40 CFR Part 60, Appendix A shall be used.
 - f. For CO, Method 10 of 40 CFR Part 60, Appendix A shall be used.
5. Compliance with the visible particulate emission limitation in OAC rule 3745-17-07(A)(1) shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. The terms and conditions listed above supercede those of PTI 14-04319 as issued on November 5, 1997.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

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Emissions Unit ID: P011

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 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>
P011 - Processed Meat Smokehouse 107 Modification	OAC rule 3745-31-05(A)(3)	See terms A.2.a. and A.2.b.
	OAC rule 3745-17-11	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
		See term A.2.d.

2. Additional Terms and Conditions**2.a** Daily emissions shall not exceed the following:

- a. 8.1 pounds of particulate/PM10;
- b. 0.1 pound of sulfur dioxide;
- c. 2.3 pound of nitrogen oxides;
- d. 6.8 pounds of organic compounds; and
- e. 9.1 pounds of carbon monoxide.

The daily emission limitations outlined are based upon the emissions unit's PTE.

Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.b** The combined annual emissions from emissions units P002, P003, and P007 through P028 combined shall not exceed the following:
- a. 35.2 tons of particulate/PM10;
 - b. 0.3 ton of sulfur dioxide;
 - c. 9.3 tons of nitrogen oxides;
 - d. 29.5 tons of organic compounds; and
 - e. 39.9 tons of carbon monoxide.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emissions limitations and record keeping requirements.
- 2.d** Visible particulate emissions from any exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;
 - c. The calculated emission rate of nitrogen oxides, in tons;
 - d. The calculated emission rate of particulate/PM10, in tons;
 - e. The calculated emission rate of carbon monoxide, in tons; and
 - f. The calculated emission rate of organic compounds, in tons.

D. Reporting Requirements

1. The permittee shall submit annual reports of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;

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- b. The calculated emission rate of sulfur dioxides, in tons;
- c. The calculated emission rate of nitrogen oxides, in tons;
- d. The calculated emission rate of particulate/PM10, in tons;
- e. The calculated emission rate of carbon monoxide, in tons; and
- f. The calculated emission rate of organic compounds, in tons.

These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the particulate and organic compound emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Meat Smokehouses, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY PM} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY PM}_{10} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - c.
$$\text{TPY OC} = [(44 \text{ Lb OC/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (11 \text{ Lbs OC/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.5 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
2. Compliance with the sulfur dioxide and nitrogen oxide emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Residential Wood Fireplaces, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY SO}_2 = [(0.4 \text{ Lb SO}_2/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (0.6 \text{ Lbs SO}_2/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.018 \text{ Lbs SO}_2/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY NO}_x = [(2.6 \text{ Lb NO}_x/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (100 \text{ Lbs NO}_x/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (14 \text{ Lbs NO}_x/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
3. Compliance with the carbon monoxide emission limitation for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from a stack test conducted on 3/6/99 at a similar facility:
 - a.
$$\text{TPY CO} = [(60.53 \text{ Lbs CO/Ton Wood Chips Burned Lbs} \times \text{Ton Wood Chips Burned/Yr}) / (2000 \text{ Lbs/Ton})].$$

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4. If testing is required to determine compliance with the allowable emission limitations for emissions units P002, P003, P007 through P028 then testing shall be conducted using the following method:
 - a. For PM, Method 5 of 40 CFR Part 60, Appendix A shall be used.
 - b. For PM₁₀, Method 201 of 40 CFR Part 51, Appendix M shall be used.
 - c. For SO₂, Method 6 of 40 CFR Part 60, Appendix A shall be used.
 - d. For NO_x, Method 7 of 40 CFR Part 60, Appendix A shall be used.
 - e. For OC, Method 25 of 40 CFR Part 60, Appendix A shall be used.
 - f. For CO, Method 10 of 40 CFR Part 60, Appendix A shall be used.
5. Compliance with the visible particulate emission limitation in OAC rule 3745-17-07(A)(1) shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. The terms and conditions listed above supercede those of PTI 14-04319 as issued on November 5, 1997.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P012 - Processed Meat Smokehouse 108 Modification	OAC rule 3745-31-05(A)(3) OAC rule 3745-17-11 OAC rule 3745-17-07(A)(1)	See terms A.2.a. and A.2.b. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1). The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). See term A.2.d.

2. Additional Terms and Conditions

2.a Daily emissions shall not exceed the following:

- a. 8.1 pounds of particulate/PM10;
- b. 0.1 pound of sulfur dioxide;
- c. 2.3 pound of nitrogen oxides;
- d. 6.8 pounds of organic compounds; and
- e. 9.1 pounds of carbon monoxide.

The daily emission limitations outlined are based upon the emissions unit's PTE. Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.b** The combined annual emissions from emissions units P002, P003, and P007 through P028 combined shall not exceed the following:
- a. 35.2 tons of particulate/PM10;
 - b. 0.3 ton of sulfur dioxide;
 - c. 9.3 tons of nitrogen oxides;
 - d. 29.5 tons of organic compounds; and
 - e. 39.9 tons of carbon monoxide.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emissions limitations and record keeping requirements.
- 2.d** Visible particulate emissions from any exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;
 - c. The calculated emission rate of nitrogen oxides, in tons;
 - d. The calculated emission rate of particulate/PM10, in tons;
 - e. The calculated emission rate of carbon monoxide, in tons; and
 - f. The calculated emission rate of organic compounds, in tons.

D. Reporting Requirements

1. The permittee shall submit annual reports of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;

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- b. The calculated emission rate of sulfur dioxides, in tons;
- c. The calculated emission rate of nitrogen oxides, in tons;
- d. The calculated emission rate of particulate/PM10, in tons;
- e. The calculated emission rate of carbon monoxide, in tons; and
- f. The calculated emission rate of organic compounds, in tons.

These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the particulate and organic compound emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Meat Smokehouses, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY PM} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY PM}_{10} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - c.
$$\text{TPY OC} = [(44 \text{ Lb OC/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (11 \text{ Lbs OC/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.5 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
2. Compliance with the sulfur dioxide and nitrogen oxide emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Residential Wood Fireplaces, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY SO}_2 = [(0.4 \text{ Lb SO}_2/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (0.6 \text{ Lbs SO}_2/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.018 \text{ Lbs SO}_2/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY NO}_x = [(2.6 \text{ Lb NO}_x/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (100 \text{ Lbs NO}_x/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (14 \text{ Lbs NO}_x/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
3. Compliance with the carbon monoxide emission limitation for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from a stack test conducted on 3/6/99 at a similar facility:
 - a.
$$\text{TPY CO} = [(60.53 \text{ Lbs CO/Ton Wood Chips Burned Lbs} \times \text{Ton Wood Chips Burned/Yr}) / (2000 \text{ Lbs/Ton})].$$
4. If testing is required to determine compliance with the allowable emission limitations for

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emissions units P002, P003, P007 through P028 then testing shall be conducted using the following method:

- a. For PM, Method 5 of 40 CFR Part 60, Appendix A shall be used.
 - b. For PM10, Method 201 of 40 CFR Part 51, Appendix M shall be used.
 - c. For SO₂, Method 6 of 40 CFR Part 60, Appendix A shall be used.
 - d. For NO_x, Method 7 of 40 CFR Part 60, Appendix A shall be used.
 - e. For OC, Method 25 of 40 CFR Part 60, Appendix A shall be used.
 - f. For CO, Method 10 of 40 CFR Part 60, Appendix A shall be used.
5. Compliance with the visible particulate emission limitation in OAC rule 3745-17-07(A)(1) shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. The terms and conditions listed above supercede those of PTIs 14-04319 as issued on November 5, 1997.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P013 - Processed Meat Smokehouse 109 Modification	OAC rule 3745-31-05(A)(3)	See terms A.2.a. and A.2.b.
	OAC rule 3745-17-11	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). See term A.2.d.

2. Additional Terms and Conditions

2.a Daily emissions shall not exceed the following:

- a. 8.1 pounds of particulate/PM10;
- b. 0.1 pound of sulfur dioxide;
- c. 2.3 pound of nitrogen oxides;
- d. 6.8 pounds of organic compounds; and
- e. 9.1 pounds of carbon monoxide.

The daily emission limitations outlined are based upon the emissions unit's PTE.

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Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.b** The combined annual emissions from emissions units P002, P003, and P007 through P028 combined shall not exceed the following:
- a. 35.2 tons of particulate/PM10;
 - b. 0.3 ton of sulfur dioxide;
 - c. 9.3 tons of nitrogen oxides;
 - d. 29.5 tons of organic compounds; and
 - e. 39.9 tons of carbon monoxide.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emissions limitations and record keeping requirements.
- 2.d** Visible particulate emissions from any exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;
 - c. The calculated emission rate of nitrogen oxides, in tons;
 - d. The calculated emission rate of particulate/PM10, in tons;
 - e. The calculated emission rate of carbon monoxide, in tons; and
 - f. The calculated emission rate of organic compounds, in tons.

D. Reporting Requirements

1. The permittee shall submit annual reports of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;

- b. The calculated emission rate of sulfur dioxides, in tons;
- c. The calculated emission rate of nitrogen oxides, in tons;
- d. The calculated emission rate of particulate/PM10, in tons;
- e. The calculated emission rate of carbon monoxide, in tons; and
- f. The calculated emission rate of organic compounds, in tons.

These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the particulate and organic compound emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Meat Smokehouses, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY PM} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY PM}_{10} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - c.
$$\text{TPY OC} = [(44 \text{ Lb OC/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (11 \text{ Lbs OC/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.5 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

2. Compliance with the sulfur dioxide and nitrogen oxide emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Residential Wood Fireplaces, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY SO}_2 = [(0.4 \text{ Lb SO}_2/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (0.6 \text{ Lbs SO}_2/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.018 \text{ Lbs SO}_2/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY NO}_x = [(2.6 \text{ Lb NO}_x/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (100 \text{ Lbs NO}_x/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (14 \text{ Lbs NO}_x/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

3. Compliance with the carbon monoxide emission limitation for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from a stack test conducted on 3/6/99 at a similar facility:
 - a.
$$\text{TPY CO} = [(60.53 \text{ Lbs CO/Ton Wood Chips Burned Lbs} \times \text{Ton Wood Chips Burned/Yr}) / (2000 \text{ Lbs/Ton})].$$

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4. If testing is required to determine compliance with the allowable emission limitations for emissions units P002, P003, P007 through P028 then testing shall be conducted using the following method:
 - a. For PM, Method 5 of 40 CFR Part 60, Appendix A shall be used.
 - b. For PM10, Method 201 of 40 CFR Part 51, Appendix M shall be used.
 - c. For SO₂, Method 6 of 40 CFR Part 60, Appendix A shall be used.
 - d. For NO_x, Method 7 of 40 CFR Part 60, Appendix A shall be used.
 - e. For OC, Method 25 of 40 CFR Part 60, Appendix A shall be used.
 - f. For CO, Method 10 of 40 CFR Part 60, Appendix A shall be used.
5. Compliance with the visible particulate emission limitation in OAC rule 3745-17-07(A)(1) shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. The terms and conditions listed above supercede those of PTIs 14-04319 as issued on November 5, 1997.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

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Emissions Unit ID: P014

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 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>
P014 - Processed Meat Smokehouse 110 Modification	OAC rule 3745-31-05(A)(3)	See terms A.2.a. and A.2.b.
	OAC rule 3745-17-11	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
		See term A.2.d.

2. Additional Terms and Conditions**2.a** Daily emissions shall not exceed the following:

- a. 8.1 pounds of particulate/PM10;
- b. 0.1 pound of sulfur dioxide;
- c. 2.3 pound of nitrogen oxides;
- d. 6.8 pounds of organic compounds; and
- e. 9.1 pounds of carbon monoxide.

The daily emission limitations outlined are based upon the emissions unit's PTE.

Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.b** The combined annual emissions from emissions units P002, P003, and P007 through P028 combined shall not exceed the following:
- a. 35.2 tons of particulate/PM10;
 - b. 0.3 ton of sulfur dioxide;
 - c. 9.3 tons of nitrogen oxides;
 - d. 29.5 tons of organic compounds; and
 - e. 39.9 tons of carbon monoxide.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emissions limitations and record keeping requirements.
- 2.d** Visible particulate emissions from any exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;
 - c. The calculated emission rate of nitrogen oxides, in tons;
 - d. The calculated emission rate of particulate/PM10, in tons;
 - e. The calculated emission rate of carbon monoxide, in tons; and
 - f. The calculated emission rate of organic compounds, in tons.

D. Reporting Requirements

1. The permittee shall submit annual reports of the following information for emissions units P002, P003, P007 through P028:

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- a. The wood chip usage rate;
- b. The calculated emission rate of sulfur dioxides, in tons;
- c. The calculated emission rate of nitrogen oxides, in tons;
- d. The calculated emission rate of particulate/PM10, in tons;
- e. The calculated emission rate of carbon monoxide, in tons; and
- f. The calculated emission rate of organic compounds, in tons.

These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the particulate and organic compound emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Meat Smokehouses, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY PM} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY PM}_{10} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - c.
$$\text{TPY OC} = [(44 \text{ Lb OC/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (11 \text{ Lbs OC/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.5 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

2. Compliance with the sulfur dioxide and nitrogen oxide emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Residential Wood Fireplaces, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY SO}_2 = [(0.4 \text{ Lb SO}_2/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (0.6 \text{ Lbs SO}_2/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.018 \text{ Lbs SO}_2/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY NO}_x = [(2.6 \text{ Lb NO}_x/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (100 \text{ Lbs NO}_x/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (14 \text{ Lbs NO}_x/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

3. Compliance with the carbon monoxide emission limitation for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from a stack test conducted on 3/6/99 at a similar facility:
 - a.
$$\text{TPY CO} = [(60.53 \text{ Lbs CO/Ton Wood Chips Burned Lbs} \times \text{Ton Wood Chips Burned/Yr}) / (2000 \text{ Lbs/Ton})].$$

Modification Issued: 1/02/2004

4. If testing is required to determine compliance with the allowable emission limitations for emissions units P002, P003, P007 through P028 then testing shall be conducted using the following method:
 - a. For PM, Method 5 of 40 CFR Part 60, Appendix A shall be used.
 - b. For PM₁₀, Method 201 of 40 CFR Part 51, Appendix M shall be used.
 - c. For SO₂, Method 6 of 40 CFR Part 60, Appendix A shall be used.
 - d. For NO_x, Method 7 of 40 CFR Part 60, Appendix A shall be used.
 - e. For OC, Method 25 of 40 CFR Part 60, Appendix A shall be used.
 - f. For CO, Method 10 of 40 CFR Part 60, Appendix A shall be used.
5. Compliance with the visible particulate emission limitation in OAC rule 3745-17-07(A)(1) shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. The terms and conditions listed above supercede those of PTI 14-04319 as issued on November 5, 1997.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P015 - Processed Meat Smokehouse 111 Modification	OAC rule 3745-31-05(A)(3) OAC rule 3745-17-11 OAC rule 3745-17-07(A)(1)	See terms A.2.a. and A.2.b. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1). The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). See term A.2.d.

2. Additional Terms and Conditions

2.a Daily emissions shall not exceed the following:

- a. 8.1 pounds of particulate/PM10;
- b. 0.1 pound of sulfur dioxide;
- c. 2.3 pound of nitrogen oxides;
- d. 6.8 pounds of organic compounds; and
- e. 9.1 pounds of carbon monoxide.

The daily emission limitations outlined are based upon the emissions unit's PTE. Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.b** The combined annual emissions from emissions units P002, P003, and P007 through P028 combined shall not exceed the following:
- a. 35.2 tons of particulate/PM10;
 - b. 0.3 ton of sulfur dioxide;
 - c. 9.3 tons of nitrogen oxides;
 - d. 29.5 tons of organic compounds; and
 - e. 39.9 tons of carbon monoxide.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emissions limitations and record keeping requirements.
- 2.d** Visible particulate emissions from any exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;
 - c. The calculated emission rate of nitrogen oxides, in tons;
 - d. The calculated emission rate of particulate/PM10, in tons;
 - e. The calculated emission rate of carbon monoxide, in tons; and
 - f. The calculated emission rate of organic compounds, in tons.

D. Reporting Requirements

1. The permittee shall submit annual reports of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;

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- b. The calculated emission rate of sulfur dioxides, in tons;
- c. The calculated emission rate of nitrogen oxides, in tons;
- d. The calculated emission rate of particulate/PM10, in tons;
- e. The calculated emission rate of carbon monoxide, in tons; and
- f. The calculated emission rate of organic compounds, in tons.

These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the particulate and organic compound emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Meat Smokehouses, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY PM} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY PM}_{10} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - c.
$$\text{TPY OC} = [(44 \text{ Lb OC/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (11 \text{ Lbs OC/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.5 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

2. Compliance with the sulfur dioxide and nitrogen oxide emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Residential Wood Fireplaces, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY SO}_2 = [(0.4 \text{ Lb SO}_2/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (0.6 \text{ Lbs SO}_2/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.018 \text{ Lbs SO}_2/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY NO}_x = [(2.6 \text{ Lb NO}_x/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (100 \text{ Lbs NO}_x/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (14 \text{ Lbs NO}_x/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

3. Compliance with the carbon monoxide emission limitation for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from a stack test conducted on 3/6/99 at a similar facility:
 - a.
$$\text{TPY CO} = [(60.53 \text{ Lbs CO/Ton Wood Chips Burned Lbs} \times \text{Ton Wood Chips Burned/Yr}) / (2000 \text{ Lbs/Ton})].$$

Modification Issued: 1/02/2004

4. If testing is required to determine compliance with the allowable emission limitations for emissions units P002, P003, P007 through P028 then testing shall be conducted using the following method:
 - a. For PM, Method 5 of 40 CFR Part 60, Appendix A shall be used.
 - b. For PM10, Method 201 of 40 CFR Part 51, Appendix M shall be used.
 - c. For SO₂, Method 6 of 40 CFR Part 60, Appendix A shall be used.
 - d. For NO_x, Method 7 of 40 CFR Part 60, Appendix A shall be used.
 - e. For OC, Method 25 of 40 CFR Part 60, Appendix A shall be used.
 - f. For CO, Method 10 of 40 CFR Part 60, Appendix A shall be used.
5. Compliance with the visible particulate emission limitation in OAC rule 3745-17-07(A)(1) shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. The terms and conditions listed above supercede those of PTI 14-04319 as issued on November 5, 1997.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 specified in narrative form following the table.

Operations, Property, and/or Equipment	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P016 - Processed Meat Smokehouse 112 Modification	OAC rule 3745-31-05(A)(3)	See terms A.2.a. and A.2.b.
	OAC rule 3745-17-11	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
		See term A.2.d.

2. Additional Terms and Conditions

2.a Daily emissions shall not exceed the following:

- a. 8.1 pounds of particulate/PM10;
- b. 0.1 pound of sulfur dioxide;
- c. 2.3 pound of nitrogen oxides;
- d. 6.8 pounds of organic compounds; and
- e. 9.1 pounds of carbon monoxide.

The daily emission limitations outlined are based upon the emissions unit's PTE. Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.b** The combined annual emissions from emissions units P002, P003, and P007 through P028 combined shall not exceed the following:
- a. 35.2 tons of particulate/PM10;
 - b. 0.3 ton of sulfur dioxide;
 - c. 9.3 tons of nitrogen oxides;
 - d. 29.5 tons of organic compounds; and
 - e. 39.9 tons of carbon monoxide.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emissions limitations and record keeping requirements.
- 2.d** Visible particulate emissions from any exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;
 - c. The calculated emission rate of nitrogen oxides, in tons;
 - d. The calculated emission rate of particulate/PM10, in tons;
 - e. The calculated emission rate of carbon monoxide, in tons; and
 - f. The calculated emission rate of organic compounds, in tons.

D. Reporting Requirements

1. The permittee shall submit annual reports of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;

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- c. The calculated emission rate of nitrogen oxides, in tons;
- d. The calculated emission rate of particulate/PM10, in tons;
- e. The calculated emission rate of carbon monoxide, in tons; and
- f. The calculated emission rate of organic compounds, in tons.

These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the particulate and organic compound emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Meat Smokehouses, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY PM} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY PM}_{10} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - c.
$$\text{TPY OC} = [(44 \text{ Lb OC/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (11 \text{ Lbs OC/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.5 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

2. Compliance with the sulfur dioxide and nitrogen oxide emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Residential Wood Fireplaces, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY SO}_2 = [(0.4 \text{ Lb SO}_2/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (0.6 \text{ Lbs SO}_2/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.018 \text{ Lbs SO}_2/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY NO}_x = [(2.6 \text{ Lb NO}_x/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (100 \text{ Lbs NO}_x/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (14 \text{ Lbs NO}_x/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

3. Compliance with the carbon monoxide emission limitation for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from a stack test conducted on 3/6/99 at a similar facility:
 - a.
$$\text{TPY CO} = [(60.53 \text{ Lbs CO/Ton Wood Chips Burned Lbs} \times \text{Ton Wood Chips Burned/Yr}) / (2000 \text{ Lbs/Ton})].$$

Emissions Unit ID: **P016**

4. If testing is required to determine compliance with the allowable emission limitations for emissions units P002, P003, P007 through P028 then testing shall be conducted using the following method:
 - a. For PM, Method 5 of 40 CFR Part 60, Appendix A shall be used.
 - b. For PM10, Method 201 of 40 CFR Part 51, Appendix M shall be used.
 - c. For SO₂, Method 6 of 40 CFR Part 60, Appendix A shall be used.
 - d. For NO_x, Method 7 of 40 CFR Part 60, Appendix A shall be used.
 - e. For OC, Method 25 of 40 CFR Part 60, Appendix A shall be used.
 - f. For CO, Method 10 of 40 CFR Part 60, Appendix A shall be used.
5. Compliance with the visible particulate emission limitation in OAC rule 3745-17-07(A)(1) shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. The terms and conditions listed above supercede those of PTI 14-04319 as issued on November 5, 1997.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P017 - Processed Meat Smokehouse Research and Development Oven Modification	OAC rule 3745-31-05(A)(3)	See terms A.2.a. and A.2.b.
	OAC rule 3745-17-11	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). See term A.2.d.

2. Additional Terms and Conditions

2.a Daily emissions shall not exceed the following:

- a. 8.0 pounds of particulate/PM10;
- b. 0.1 pound of sulfur dioxide;
- c. 0.6 pound of nitrogen oxides;
- d. 6.7 pounds of organic compounds; and
- e. 9.1 pounds of carbon monoxide.

The daily emission limitations outlined are based upon the emissions unit's PTE.

Emissions Unit ID: P017

Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.b** The combined annual emissions from emissions units P002, P003, and P007 through P028 combined shall not exceed the following:
- a. 35.2 tons of particulate/PM10;
 - b. 0.3 ton of sulfur dioxide;
 - c. 9.3 tons of nitrogen oxides;
 - d. 29.5 tons of organic compounds; and
 - e. 39.9 tons of carbon monoxide.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emissions limitations and record keeping requirements.
- 2.d** Visible particulate emissions from any exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;
 - c. The calculated emission rate of nitrogen oxides, in tons;
 - d. The calculated emission rate of particulate/PM10, in tons;
 - e. The calculated emission rate of carbon monoxide, in tons; and
 - f. The calculated emission rate of organic compounds, in tons.

D. Reporting Requirements

1. The permittee shall submit annual reports of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;

- b. The calculated emission rate of sulfur dioxides, in tons;
- c. The calculated emission rate of nitrogen oxides, in tons;
- d. The calculated emission rate of particulate/PM10, in tons;
- e. The calculated emission rate of carbon monoxide, in tons; and
- f. The calculated emission rate of organic compounds, in tons.

These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the particulate and organic compound emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Meat Smokehouses, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY PM} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY PM}_{10} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - c.
$$\text{TPY OC} = [(44 \text{ Lb OC/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (11 \text{ Lbs OC/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.5 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

2. Compliance with the sulfur dioxide and nitrogen oxide emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Residential Wood Fireplaces, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY SO}_2 = [(0.4 \text{ Lb SO}_2/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (0.6 \text{ Lbs SO}_2/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.018 \text{ Lbs SO}_2/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY NO}_x = [(2.6 \text{ Lb NO}_x/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (100 \text{ Lbs NO}_x/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (14 \text{ Lbs NO}_x/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

3. Compliance with the carbon monoxide emission limitation for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from a stack test conducted on 3/6/99 at a similar facility:
 - a.
$$\text{TPY CO} = [(60.53 \text{ Lbs CO/Ton Wood Chips Burned Lbs} \times \text{Ton Wood Chips Burned/Yr}) / (2000 \text{ Lbs/Ton})].$$

Emissions Unit ID: **P017**

4. If testing is required to determine compliance with the allowable emission limitations for emissions units P002, P003, P007 through P028 then testing shall be conducted using the following method:
 - a. For PM, Method 5 of 40 CFR Part 60, Appendix A shall be used.
 - b. For PM₁₀, Method 201 of 40 CFR Part 51, Appendix M shall be used.
 - c. For SO₂, Method 6 of 40 CFR Part 60, Appendix A shall be used.
 - d. For NO_x, Method 7 of 40 CFR Part 60, Appendix A shall be used.
 - e. For OC, Method 25 of 40 CFR Part 60, Appendix A shall be used.
 - f. For CO, Method 10 of 40 CFR Part 60, Appendix A shall be used.
5. Compliance with the visible particulate emission limitation in OAC rule 3745-17-07(A)(1) shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. The terms and conditions listed above supercede those of PTIs 14-04319 as issued on November 5, 1997.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

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PTI A

Modification Issued: 1/02/2004

Emissions Unit ID: P018

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 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>
P018 - Processed Meat Smokehouse 301 Modification	OAC rule 3745-31-05(A)(3)	See terms A.2.a. and A.2.b.
	OAC rule 3745-17-11	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
		See term A.2.d.

2. Additional Terms and Conditions**2.a** Daily emissions shall not exceed the following:

- a. 8.1 pounds of particulate/PM10;
- b. 0.1 pound of sulfur dioxide;
- c. 2.3 pound of nitrogen oxides;
- d. 6.8 pounds of organic compounds; and
- e. 9.1 pounds of carbon monoxide.

The daily emission limitations outlined are based upon the emissions unit's PTE.

Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.b** The combined annual emissions from emissions units P002, P003, and P007 through P028 combined shall not exceed the following:
- a. 35.2 tons of particulate/PM10;
 - b. 0.3 ton of sulfur dioxide;
 - c. 9.3 tons of nitrogen oxides;
 - d. 29.5 tons of organic compounds; and
 - e. 39.9 tons of carbon monoxide.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emissions limitations and record keeping requirements.
- 2.d** Visible particulate emissions from any exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;
 - c. The calculated emission rate of nitrogen oxides, in tons;
 - d. The calculated emission rate of particulate/PM10, in tons;
 - e. The calculated emission rate of carbon monoxide, in tons; and
 - f. The calculated emission rate of organic compounds, in tons.

D. Reporting Requirements

1. The permittee shall submit annual reports of the following information for emissions units P002, P003, P007 through P028:

Hillshire Farm Kahns

PTI Application: 14-04310

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Facility ID: 1431071268

Emissions Unit ID: **P018**

- a. The wood chip usage rate;
- b. The calculated emission rate of sulfur dioxides, in tons;
- c. The calculated emission rate of nitrogen oxides, in tons;
- d. The calculated emission rate of particulate/PM10, in tons;
- e. The calculated emission rate of carbon monoxide, in tons; and
- f. The calculated emission rate of organic compounds, in tons.

These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the particulate and organic compound emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Meat Smokehouses, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY PM} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY PM}_{10} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - c.
$$\text{TPY OC} = [(44 \text{ Lb OC/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (11 \text{ Lbs OC/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.5 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

2. Compliance with the sulfur dioxide and nitrogen oxide emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Residential Wood Fireplaces, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY SO}_2 = [(0.4 \text{ Lb SO}_2/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (0.6 \text{ Lbs SO}_2/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.018 \text{ Lbs SO}_2/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY NO}_x = [(2.6 \text{ Lb NO}_x/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (100 \text{ Lbs NO}_x/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (14 \text{ Lbs NO}_x/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

3. Compliance with the carbon monoxide emission limitation for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from a stack test conducted on 3/6/99 at a similar facility:
 - a.
$$\text{TPY CO} = [(60.53 \text{ Lbs CO/Ton Wood Chips Burned Lbs} \times \text{Ton Wood Chips Burned/Yr}) / (2000 \text{ Lbs/Ton})].$$

Modification Issued: 1/02/2004

4. If testing is required to determine compliance with the allowable emission limitations for emissions units P002, P003, P007 through P028 then testing shall be conducted using the following method:
 - a. For PM, Method 5 of 40 CFR Part 60, Appendix A shall be used.
 - b. For PM10, Method 201 of 40 CFR Part 51, Appendix M shall be used.
 - c. For SO₂, Method 6 of 40 CFR Part 60, Appendix A shall be used.
 - d. For NO_x, Method 7 of 40 CFR Part 60, Appendix A shall be used.
 - e. For OC, Method 25 of 40 CFR Part 60, Appendix A shall be used.
 - f. For CO, Method 10 of 40 CFR Part 60, Appendix A shall be used.
5. Compliance with the visible particulate emission limitation in OAC rule 3745-17-07(A)(1) shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. The terms and conditions listed above supercede those of PTI 14-04319 as issued on November 5, 1997.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P019 - Processed Meat Smokehouse 302 Modification	OAC rule 3745-31-05(A)(3) OAC rule 3745-17-11 OAC rule 3745-17-07(A)(1)	See terms A.2.a. and A.2.b. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1). The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). See term A.2.d.

2. Additional Terms and Conditions

2.a Daily emissions shall not exceed the following:

- a. 8.1 pounds of particulate/PM10;
- b. 0.1 pound of sulfur dioxide;
- c. 2.3 pound of nitrogen oxides;
- d. 6.8 pounds of organic compounds; and
- e. 9.1 pounds of carbon monoxide.

The daily emission limitations outlined are based upon the emissions unit's PTE. Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.b** The combined annual emissions from emissions units P002, P003, and P007 through P028 combined shall not exceed the following:
- a. 35.2 tons of particulate/PM10;
 - b. 0.3 ton of sulfur dioxide;
 - c. 9.3 tons of nitrogen oxides;
 - d. 29.5 tons of organic compounds; and
 - e. 39.9 tons of carbon monoxide.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emissions limitations and record keeping requirements.
- 2.d** Visible particulate emissions from any exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;
 - c. The calculated emission rate of nitrogen oxides, in tons;
 - d. The calculated emission rate of particulate/PM10, in tons;
 - e. The calculated emission rate of carbon monoxide, in tons; and
 - f. The calculated emission rate of organic compounds, in tons.

D. Reporting Requirements

1. The permittee shall submit annual reports of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;

- b. The calculated emission rate of sulfur dioxides, in tons;
- c. The calculated emission rate of nitrogen oxides, in tons;
- d. The calculated emission rate of particulate/PM10, in tons;
- e. The calculated emission rate of carbon monoxide, in tons; and
- f. The calculated emission rate of organic compounds, in tons.

These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the particulate and organic compound emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Meat Smokehouses, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY PM} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY PM}_{10} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - c.
$$\text{TPY OC} = [(44 \text{ Lb OC/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (11 \text{ Lbs OC/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.5 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

2. Compliance with the sulfur dioxide and nitrogen oxide emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Residential Wood Fireplaces, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY SO}_2 = [(0.4 \text{ Lb SO}_2/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (0.6 \text{ Lbs SO}_2/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.018 \text{ Lbs SO}_2/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY NO}_x = [(2.6 \text{ Lb NO}_x/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (100 \text{ Lbs NO}_x/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (14 \text{ Lbs NO}_x/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

3. Compliance with the carbon monoxide emission limitation for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from a stack test conducted on 3/6/99 at a similar facility:
 - a.
$$\text{TPY CO} = [(60.53 \text{ Lbs CO/Ton Wood Chips Burned Lbs} \times \text{Ton Wood Chips Burned/Yr}) / (2000 \text{ Lbs/Ton})].$$

4. If testing is required to determine compliance with the allowable emission limitations for

emissions units P002, P003, P007 through P028 then testing shall be conducted using the following method:

- a. For PM, Method 5 of 40 CFR Part 60, Appendix A shall be used.
 - b. For PM10, Method 201 of 40 CFR Part 51, Appendix M shall be used.
 - c. For SO₂, Method 6 of 40 CFR Part 60, Appendix A shall be used.
 - d. For NO_x, Method 7 of 40 CFR Part 60, Appendix A shall be used.
 - e. For OC, Method 25 of 40 CFR Part 60, Appendix A shall be used.
 - f. For CO, Method 10 of 40 CFR Part 60, Appendix A shall be used.
5. Compliance with the visible particulate emission limitation in OAC rule 3745-17-07(A)(1) shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. The terms and conditions listed above supercede those of PTI 14-04319 as issued on November 5, 1997.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P020 - Processed Meat Smokehouse 303 Modification	OAC rule 3745-31-05(A)(3)	See terms A.2.a. and A.2.b.
	OAC rule 3745-17-11	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). See term A.2.d.

2. Additional Terms and Conditions

2.a Daily emissions shall not exceed the following:

- a. 8.1 pounds of particulate/PM10;
- b. 0.1 pound of sulfur dioxide;
- c. 2.3 pound of nitrogen oxides;
- d. 6.8 pounds of organic compounds; and
- e. 9.1 pounds of carbon monoxide.

The daily emission limitations outlined are based upon the emissions unit's PTE.

Emissions Unit ID: P020

Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.b** The combined annual emissions from emissions units P002, P003, and P007 through P028 combined shall not exceed the following:
- a. 35.2 tons of particulate/PM10;
 - b. 0.3 ton of sulfur dioxide;
 - c. 9.3 tons of nitrogen oxides;
 - d. 29.5 tons of organic compounds; and
 - e. 39.9 tons of carbon monoxide.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emissions limitations and record keeping requirements.
- 2.d** Visible particulate emissions from any exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;
 - c. The calculated emission rate of nitrogen oxides, in tons;
 - d. The calculated emission rate of particulate/PM10, in tons;
 - e. The calculated emission rate of carbon monoxide, in tons; and
 - f. The calculated emission rate of organic compounds, in tons.

D. Reporting Requirements

1. The permittee shall submit annual reports of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;

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Emissions Unit ID: **P020**

- b. The calculated emission rate of sulfur dioxides, in tons;
- c. The calculated emission rate of nitrogen oxides, in tons;
- d. The calculated emission rate of particulate/PM10, in tons;
- e. The calculated emission rate of carbon monoxide, in tons; and
- f. The calculated emission rate of organic compounds, in tons.

These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the particulate and organic compound emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Meat Smokehouses, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY PM} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY PM}_{10} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - c.
$$\text{TPY OC} = [(44 \text{ Lb OC/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (11 \text{ Lbs OC/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.5 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

2. Compliance with the sulfur dioxide and nitrogen oxide emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Residential Wood Fireplaces, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY SO}_2 = [(0.4 \text{ Lb SO}_2/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (0.6 \text{ Lbs SO}_2/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.018 \text{ Lbs SO}_2/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY NO}_x = [(2.6 \text{ Lb NO}_x/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (100 \text{ Lbs NO}_x/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (14 \text{ Lbs NO}_x/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

3. Compliance with the carbon monoxide emission limitation for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from a stack test conducted on 3/6/99 at a similar facility:
 - a.
$$\text{TPY CO} = [(60.53 \text{ Lbs CO/Ton Wood Chips Burned Lbs} \times \text{Ton Wood Chips Burned/Yr}) / (2000 \text{ Lbs/Ton})].$$

Emissions Unit ID: **P020**

4. If testing is required to determine compliance with the allowable emission limitations for emissions units P002, P003, P007 through P028 then testing shall be conducted using the following method:
 - a. For PM, Method 5 of 40 CFR Part 60, Appendix A shall be used.
 - b. For PM10, Method 201 of 40 CFR Part 51, Appendix M shall be used.
 - c. For SO₂, Method 6 of 40 CFR Part 60, Appendix A shall be used.
 - d. For NO_x, Method 7 of 40 CFR Part 60, Appendix A shall be used.
 - e. For OC, Method 25 of 40 CFR Part 60, Appendix A shall be used.
 - f. For CO, Method 10 of 40 CFR Part 60, Appendix A shall be used.
5. Compliance with the visible particulate emission limitation in OAC rule 3745-17-07(A)(1) shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. The terms and conditions listed above supercede those of PTI 14-04319 as issued on November 5, 1997.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P021 - Processed Meat Smokehouse 304 Modification	OAC rule 3745-31-05(A)(3)	See terms A.2.a. and A.2.b.
	OAC rule 3745-17-11	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). See term A.2.d.

2. Additional Terms and Conditions

2.a Daily emissions shall not exceed the following:

- a. 8.1 pounds of particulate/PM10;
- b. 0.1 pound of sulfur dioxide;
- c. 2.3 pound of nitrogen oxides;
- d. 6.8 pounds of organic compounds; and
- e. 9.1 pounds of carbon monoxide.

The daily emission limitations outlined are based upon the emissions unit's PTE.

Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.b** The combined annual emissions from emissions units P002, P003, and P007 through P028 combined shall not exceed the following:
- a. 35.2 tons of particulate/PM10;
 - b. 0.3 ton of sulfur dioxide;
 - c. 9.3 tons of nitrogen oxides;
 - d. 29.5 tons of organic compounds; and
 - e. 39.9 tons of carbon monoxide.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emissions limitations and record keeping requirements.
- 2.d** Visible particulate emissions from any exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;
 - c. The calculated emission rate of nitrogen oxides, in tons;
 - d. The calculated emission rate of particulate/PM10, in tons;
 - e. The calculated emission rate of carbon monoxide, in tons; and
 - f. The calculated emission rate of organic compounds, in tons.

D. Reporting Requirements

1. The permittee shall submit annual reports of the following information for emissions units P002, P003, P007 through P028:

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Facility ID: 1431071268

Emissions Unit ID: **P021**

- a. The wood chip usage rate;
- b. The calculated emission rate of sulfur dioxides, in tons;
- c. The calculated emission rate of nitrogen oxides, in tons;
- d. The calculated emission rate of particulate/PM10, in tons;
- e. The calculated emission rate of carbon monoxide, in tons; and
- f. The calculated emission rate of organic compounds, in tons.

These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the particulate and organic compound emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Meat Smokehouses, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY PM} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY PM}_{10} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - c.
$$\text{TPY OC} = [(44 \text{ Lb OC/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (11 \text{ Lbs OC/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.5 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

2. Compliance with the sulfur dioxide and nitrogen oxide emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Residential Wood Fireplaces, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY SO}_2 = [(0.4 \text{ Lb SO}_2/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (0.6 \text{ Lbs SO}_2/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.018 \text{ Lbs SO}_2/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY NO}_x = [(2.6 \text{ Lb NO}_x/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (100 \text{ Lbs NO}_x/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (14 \text{ Lbs NO}_x/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

3. Compliance with the carbon monoxide emission limitation for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from a stack test conducted on 3/6/99 at a similar facility:
 - a.
$$\text{TPY CO} = [(60.53 \text{ Lbs CO/Ton Wood Chips Burned Lbs} \times \text{Ton Wood Chips Burned/Yr}) / (2000 \text{ Lbs/Ton})].$$

Modification Issued: 1/02/2004

4. If testing is required to determine compliance with the allowable emission limitations for emissions units P002, P003, P007 through P028 then testing shall be conducted using the following method:
 - a. For PM, Method 5 of 40 CFR Part 60, Appendix A shall be used.
 - b. For PM10, Method 201 of 40 CFR Part 51, Appendix M shall be used.
 - c. For SO₂, Method 6 of 40 CFR Part 60, Appendix A shall be used.
 - d. For NO_x, Method 7 of 40 CFR Part 60, Appendix A shall be used.
 - e. For OC, Method 25 of 40 CFR Part 60, Appendix A shall be used.
 - f. For CO, Method 10 of 40 CFR Part 60, Appendix A shall be used.
5. Compliance with the visible particulate emission limitation in OAC rule 3745-17-07(A)(1) shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. The terms and conditions listed above supercede those of PTI 14-04319 as issued on November 5, 1997.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P022 - Processed Meat Smokehouse 306 Modification	OAC rule 3745-31-05(A)(3) OAC rule 3745-17-11 OAC rule 3745-17-07(A)(1)	See terms A.2.a. and A.2.b. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1). The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). See term A.2.d.

2. Additional Terms and Conditions

2.a Daily emissions shall not exceed the following:

- a. 8.1 pounds of particulate/PM10;
- b. 0.1 pound of sulfur dioxide;
- c. 2.3 pound of nitrogen oxides;
- d. 6.8 pounds of organic compounds; and
- e. 9.1 pounds of carbon monoxide.

The daily emission limitations outlined are based upon the emissions unit's PTE. Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.b** The combined annual emissions from emissions units P002, P003, and P007 through P028 combined shall not exceed the following:
- a. 35.2 tons of particulate/PM10;
 - b. 0.3 ton of sulfur dioxide;
 - c. 9.3 tons of nitrogen oxides;
 - d. 29.5 tons of organic compounds; and
 - e. 39.9 tons of carbon monoxide.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emissions limitations and record keeping requirements.
- 2.d** Visible particulate emissions from any exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;
 - c. The calculated emission rate of nitrogen oxides, in tons;
 - d. The calculated emission rate of particulate/PM10, in tons;
 - e. The calculated emission rate of carbon monoxide, in tons; and
 - f. The calculated emission rate of organic compounds, in tons.

D. Reporting Requirements

1. The permittee shall submit annual reports of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;

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Facility ID: 1431071268

Emissions Unit ID: **P022**

- b. The calculated emission rate of sulfur dioxides, in tons;
- c. The calculated emission rate of nitrogen oxides, in tons;
- d. The calculated emission rate of particulate/PM10, in tons;
- e. The calculated emission rate of carbon monoxide, in tons; and
- f. The calculated emission rate of organic compounds, in tons.

These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the particulate and organic compound emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Meat Smokehouses, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY PM} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY PM}_{10} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - c.
$$\text{TPY OC} = [(44 \text{ Lb OC/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (11 \text{ Lbs OC/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.5 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

2. Compliance with the sulfur dioxide and nitrogen oxide emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Residential Wood Fireplaces, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY SO}_2 = [(0.4 \text{ Lb SO}_2/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (0.6 \text{ Lbs SO}_2/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.018 \text{ Lbs SO}_2/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY NO}_x = [(2.6 \text{ Lb NO}_x/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (100 \text{ Lbs NO}_x/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (14 \text{ Lbs NO}_x/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

3. Compliance with the carbon monoxide emission limitation for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from a stack test conducted on 3/6/99 at a similar facility:
 - a.
$$\text{TPY CO} = [(60.53 \text{ Lbs CO/Ton Wood Chips Burned Lbs} \times \text{Ton Wood Chips Burned/Yr}) / (2000 \text{ Lbs/Ton})].$$

Modification Issued: 1/02/2004

4. If testing is required to determine compliance with the allowable emission limitations for emissions units P002, P003, P007 through P028 then testing shall be conducted using the following method:
 - a. For PM, Method 5 of 40 CFR Part 60, Appendix A shall be used.
 - b. For PM10, Method 201 of 40 CFR Part 51, Appendix M shall be used.
 - c. For SO₂, Method 6 of 40 CFR Part 60, Appendix A shall be used.
 - d. For NO_x, Method 7 of 40 CFR Part 60, Appendix A shall be used.
 - e. For OC, Method 25 of 40 CFR Part 60, Appendix A shall be used.
 - f. For CO, Method 10 of 40 CFR Part 60, Appendix A shall be used.
5. Compliance with the visible particulate emission limitation in OAC rule 3745-17-07(A)(1) shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. The terms and conditions listed above supercede those of PTI 14-04319 as issued on November 5, 1997.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P023 - Processed Meat Smokehouse 307 Modification	OAC rule 3745-31-05(A)(3) OAC rule 3745-17-11 OAC rule 3745-17-07(A)(1)	See terms A.2.a. and A.2.b. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1). The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). See term A.2.d.

2. Additional Terms and Conditions

- 2.a Daily emissions shall not exceed the following:
 - a. 8.1 pounds of particulate/PM10;
 - b. 0.1 pound of sulfur dioxide;
 - c. 2.3 pound of nitrogen oxides;
 - d. 6.8 pounds of organic compounds; and
 - e. 9.1 pounds of carbon monoxide.

The daily emission limitations outlined are based upon the emissions unit's PTE. Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.b** The combined annual emissions from emissions units P002, P003, and P007 through P028 combined shall not exceed the following:
- a. 35.2 tons of particulate/PM10;
 - b. 0.3 ton of sulfur dioxide;
 - c. 9.3 tons of nitrogen oxides;
 - d. 29.5 tons of organic compounds; and
 - e. 39.9 tons of carbon monoxide.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emissions limitations and record keeping requirements.
- 2.d** Visible particulate emissions from any exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;
 - c. The calculated emission rate of nitrogen oxides, in tons;
 - d. The calculated emission rate of particulate/PM10, in tons;
 - e. The calculated emission rate of carbon monoxide, in tons; and
 - f. The calculated emission rate of organic compounds, in tons.

D. Reporting Requirements

1. The permittee shall submit annual reports of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;

- b. The calculated emission rate of sulfur dioxides, in tons;
- c. The calculated emission rate of nitrogen oxides, in tons;
- d. The calculated emission rate of particulate/PM10, in tons;
- e. The calculated emission rate of carbon monoxide, in tons; and
- f. The calculated emission rate of organic compounds, in tons.

These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the particulate and organic compound emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Meat Smokehouses, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY PM} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY PM}_{10} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - c.
$$\text{TPY OC} = [(44 \text{ Lb OC/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (11 \text{ Lbs OC/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.5 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
2. Compliance with the sulfur dioxide and nitrogen oxide emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Residential Wood Fireplaces, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY SO}_2 = [(0.4 \text{ Lb SO}_2/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (0.6 \text{ Lbs SO}_2/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.018 \text{ Lbs SO}_2/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY NO}_x = [(2.6 \text{ Lb NO}_x/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (100 \text{ Lbs NO}_x/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (14 \text{ Lbs NO}_x/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
3. Compliance with the carbon monoxide emission limitation for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from a stack test conducted on 3/6/99 at a similar facility:
 - a.
$$\text{TPY CO} = [(60.53 \text{ Lbs CO/Ton Wood Chips Burned Lbs} \times \text{Ton Wood Chips Burned/Yr}) / (2000 \text{ Lbs/Ton})].$$

Emissions Unit ID: **P023**

4. If testing is required to determine compliance with the allowable emission limitations for emissions units P002, P003, P007 through P028 then testing shall be conducted using the following method:
 - a. For PM, Method 5 of 40 CFR Part 60, Appendix A shall be used.
 - b. For PM₁₀, Method 201 of 40 CFR Part 51, Appendix M shall be used.
 - c. For SO₂, Method 6 of 40 CFR Part 60, Appendix A shall be used.
 - d. For NO_x, Method 7 of 40 CFR Part 60, Appendix A shall be used.
 - e. For OC, Method 25 of 40 CFR Part 60, Appendix A shall be used.
 - f. For CO, Method 10 of 40 CFR Part 60, Appendix A shall be used.
5. Compliance with the visible particulate emission limitation in OAC rule 3745-17-07(A)(1) shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. The terms and conditions listed above supercede those of PTI 14-04319 as issued on November 5, 1997.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P024 - Processed Meat Smokehouse 308 Modification	OAC rule 3745-31-05(A)(3)	See terms A.2.a. and A.2.b.
	OAC rule 3745-17-11	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). See term A.2.d.

2. Additional Terms and Conditions

2.a Daily emissions shall not exceed the following:

- a. 8.1 pounds of particulate/PM10;
- b. 0.1 pound of sulfur dioxide;
- c. 2.3 pound of nitrogen oxides;
- d. 6.8 pounds of organic compounds; and
- e. 9.1 pounds of carbon monoxide.

The daily emission limitations outlined are based upon the emissions unit's PTE.

Emissions Unit ID: P024

Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.b** The combined annual emissions from emissions units P002, P003, and P007 through P028 combined shall not exceed the following:
- a. 35.2 tons of particulate/PM10;
 - b. 0.3 ton of sulfur dioxide;
 - c. 9.3 tons of nitrogen oxides;
 - d. 29.5 tons of organic compounds; and
 - e. 39.9 tons of carbon monoxide.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emissions limitations and record keeping requirements.
- 2.d** Visible particulate emissions from any exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;
 - c. The calculated emission rate of nitrogen oxides, in tons;
 - d. The calculated emission rate of particulate/PM10, in tons;
 - e. The calculated emission rate of carbon monoxide, in tons; and
 - f. The calculated emission rate of organic compounds, in tons.

D. Reporting Requirements

1. The permittee shall submit annual reports of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;

- b. The calculated emission rate of sulfur dioxides, in tons;
- c. The calculated emission rate of nitrogen oxides, in tons;
- d. The calculated emission rate of particulate/PM10, in tons;
- e. The calculated emission rate of carbon monoxide, in tons; and
- f. The calculated emission rate of organic compounds, in tons.

These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the particulate and organic compound emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Meat Smokehouses, Natural Gas Combustion and Liquified Petroleum Gas Combustion:
 - a.
$$\text{TPY PM} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY PM}_{10} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - c.
$$\text{TPY OC} = [(44 \text{ Lb OC/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (11 \text{ Lbs OC/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.5 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
2. Compliance with the sulfur dioxide and nitrogen oxide emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Residential Wood Fireplaces, Natural Gas Combustion and Liquified Petroleum Gas Combustion:
 - a.
$$\text{TPY SO}_2 = [(0.4 \text{ Lb SO}_2/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (0.6 \text{ Lbs SO}_2/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.018 \text{ Lbs SO}_2/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY NO}_x = [(2.6 \text{ Lb NO}_x/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (100 \text{ Lbs NO}_x/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (14 \text{ Lbs NO}_x/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
3. Compliance with the carbon monoxide emission limitation for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from a stack test conducted on 3/6/99 at a similar facility:
 - a.
$$\text{TPY CO} = [(60.53 \text{ Lbs CO/Ton Wood Chips Burned Lbs} \times \text{Ton Wood Chips Burned/Yr}) / (2000 \text{ Lbs/Ton})].$$

Emissions Unit ID: **P024**

4. If testing is required to determine compliance with the allowable emission limitations for emissions units P002, P003, P007 through P028 then testing shall be conducted using the following method:
 - a. For PM, Method 5 of 40 CFR Part 60, Appendix A shall be used.
 - b. For PM₁₀, Method 201 of 40 CFR Part 51, Appendix M shall be used.
 - c. For SO₂, Method 6 of 40 CFR Part 60, Appendix A shall be used.
 - d. For NO_x, Method 7 of 40 CFR Part 60, Appendix A shall be used.
 - e. For OC, Method 25 of 40 CFR Part 60, Appendix A shall be used.
 - f. For CO, Method 10 of 40 CFR Part 60, Appendix A shall be used.
5. Compliance with the visible particulate emission limitation in OAC rule 3745-17-07(A)(1) shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. The terms and conditions listed above supercede those of PTI 14-04319 as issued on November 5, 1997.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P025 - Processed Meat Smokehouse 309 Modification	OAC rule 3745-31-05(A)(3)	See terms A.2.a. and A.2.b.
	OAC rule 3745-17-11	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1). 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)(1)	See term A.2.d.

2. Additional Terms and Conditions

2.a Daily emissions shall not exceed the following:

- a. 8.1 pounds of particulate/PM10;
- b. 0.1 pound of sulfur dioxide;
- c. 2.3 pound of nitrogen oxides;
- d. 6.8 pounds of organic compounds; and
- e. 9.1 pounds of carbon monoxide.

The daily emission limitations outlined are based upon the emissions unit's PTE.

Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.b** The combined annual emissions from emissions units P002, P003, and P007 through P028 combined shall not exceed the following:
- a. 35.2 tons of particulate/PM10;
 - b. 0.3 ton of sulfur dioxide;
 - c. 9.3 tons of nitrogen oxides;
 - d. 29.5 tons of organic compounds; and
 - e. 39.9 tons of carbon monoxide.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emissions limitations and record keeping requirements.
- 2.d** Visible particulate emissions from any exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;
 - c. The calculated emission rate of nitrogen oxides, in tons;
 - d. The calculated emission rate of particulate/PM10, in tons;
 - e. The calculated emission rate of carbon monoxide, in tons; and
 - f. The calculated emission rate of organic compounds, in tons.

D. Reporting Requirements

1. The permittee shall submit annual reports of the following information for emissions units P002, P003, P007 through P028:

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- a. The wood chip usage rate;
- b. The calculated emission rate of sulfur dioxides, in tons;
- c. The calculated emission rate of nitrogen oxides, in tons;
- d. The calculated emission rate of particulate/PM10, in tons;
- e. The calculated emission rate of carbon monoxide, in tons; and
- f. The calculated emission rate of organic compounds, in tons.

These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the particulate and organic compound emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Meat Smokehouses, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY PM} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY PM}_{10} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - c.
$$\text{TPY OC} = [(44 \text{ Lb OC/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (11 \text{ Lbs OC/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.5 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

2. Compliance with the sulfur dioxide and nitrogen oxide emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Residential Wood Fireplaces, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY SO}_2 = [(0.4 \text{ Lb SO}_2/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (0.6 \text{ Lbs SO}_2/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.018 \text{ Lbs SO}_2/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY NO}_x = [(2.6 \text{ Lb NO}_x/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (100 \text{ Lbs NO}_x/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (14 \text{ Lbs NO}_x/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

3. Compliance with the carbon monoxide emission limitation for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from a stack test conducted on 3/6/99 at a similar facility:
 - a.
$$\text{TPY CO} = [(60.53 \text{ Lbs CO/Ton Wood Chips Burned Lbs} \times \text{Ton Wood Chips Burned/Yr}) / (2000 \text{ Lbs/Ton})].$$

Modification Issued: 1/02/2004

4. If testing is required to determine compliance with the allowable emission limitations for emissions units P002, P003, P007 through P028 then testing shall be conducted using the following method:
 - a. For PM, Method 5 of 40 CFR Part 60, Appendix A shall be used.
 - b. For PM10, Method 201 of 40 CFR Part 51, Appendix M shall be used.
 - c. For SO₂, Method 6 of 40 CFR Part 60, Appendix A shall be used.
 - d. For NO_x, Method 7 of 40 CFR Part 60, Appendix A shall be used.
 - e. For OC, Method 25 of 40 CFR Part 60, Appendix A shall be used.
 - f. For CO, Method 10 of 40 CFR Part 60, Appendix A shall be used.
5. Compliance with the visible particulate emission limitation in OAC rule 3745-17-07(A)(1) shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. The terms and conditions listed above supercede those of PTI 14-04319 as issued on November 5, 1997.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P026 - Processed Meat Smokehouse 305 Modification	OAC rule 3745-31-05(A)(3)	See terms A.2.a. and A.2.b.
	OAC rule 3745-17-11	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1). The requirements established pursuant to this rule are less stringent than the requirements of OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	See term A.2.d.

2. Additional Terms and Conditions

- 2.a Daily emissions shall not exceed the following:
 - a. 8.1 pounds of particulate/PM10;
 - b. 0.1 pound of sulfur dioxide;
 - c. 2.3 pound of nitrogen oxides;
 - d. 6.8 pounds of organic compounds; and
 - e. 9.1 pounds of carbon monoxide.

The daily emission limitations outlined are based upon the emissions unit's PTE. Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.b** The combined annual emissions from emissions units P002, P003, and P007 through P028 combined shall not exceed the following:

- a. 35.2 tons of particulate/PM10;
- b. 0.3 ton of sulfur dioxide;
- c. 9.3 tons of nitrogen oxides;
- d. 29.5 tons of organic compounds; and
- e. 39.9 tons of carbon monoxide.

- 2.c Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emissions limitations and record keeping requirements.
- 2.d Visible particulate emissions from any exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;
 - c. The calculated emission rate of nitrogen oxides, in tons;
 - d. The calculated emission rate of particulate/PM10, in tons;
 - e. The calculated emission rate of carbon monoxide, in tons; and
 - f. The calculated emission rate of organic compounds, in tons.

D. Reporting Requirements

1. The permittee shall submit annual reports of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;
 - c. The calculated emission rate of nitrogen oxides, in tons;
 - d. The calculated emission rate of particulate/PM10, in tons;
 - e. The calculated emission rate of carbon monoxide, in tons; and
 - f. The calculated emission rate of organic compounds, in tons.

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Emissions Unit ID: **P026**

These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the particulate and organic compound emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Meat Smokehouses, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY PM} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY PM}_{10} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - c.
$$\text{TPY OC} = [(44 \text{ Lb OC/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (11 \text{ Lbs OC/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.5 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

2. Compliance with the sulfur dioxide and nitrogen oxide emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Residential Wood Fireplaces, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY SO}_2 = [(0.4 \text{ Lb SO}_2/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (0.6 \text{ Lbs SO}_2/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.018 \text{ Lbs SO}_2/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY NO}_x = [(2.6 \text{ Lb NO}_x/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (100 \text{ Lbs NO}_x/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (14 \text{ Lbs NO}_x/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$

3. Compliance with the carbon monoxide emission limitation for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from a stack test conducted on 3/6/99 at a similar facility:
 - a.
$$\text{TPY CO} = [(60.53 \text{ Lbs CO/Ton Wood Chips Burned Lbs} \times \text{Ton Wood Chips Burned/Yr}) / (2000 \text{ Lbs/Ton})].$$

4. If testing is required to determine compliance with the allowable emission limitations for

emissions units P002, P003, P007 through P028 then testing shall be conducted using the following method:

- a. For PM, Method 5 of 40 CFR Part 60, Appendix A shall be used.
 - b. For PM10, Method 201 of 40 CFR Part 51, Appendix M shall be used.
 - c. For SO₂, Method 6 of 40 CFR Part 60, Appendix A shall be used.
 - d. For NO_x, Method 7 of 40 CFR Part 60, Appendix A shall be used.
 - e. For OC, Method 25 of 40 CFR Part 60, Appendix A shall be used.
 - f. For CO, Method 10 of 40 CFR Part 60, Appendix A shall be used.
5. Compliance with the visible particulate emission limitation in OAC rule 3745-17-07(A)(1) shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. The terms and conditions listed above supercede those of PTI 14-04319 as issued on November 5, 1997.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P027 - Processed Meat Smokehouse 310 Modification	OAC rule 3745-31-05(A)(3)	See terms A.2.a. and A.2.b.
	OAC rule 3745-17-11	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1). 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)(1)	See term A.2.d.

2. Additional Terms and Conditions

2.a Daily emissions shall not exceed the following:

- a. 8.0 pounds of particulate/PM10;
- b. 0.1 pound of sulfur dioxide;
- c. 1.4 pound of nitrogen oxides;
- d. 6.7 pounds of organic compounds; and
- e. 9.1 pounds of carbon monoxide.

The daily emission limitations outlined are based upon the emissions unit's PTE.

Emissions Unit ID: P027

Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.b** The combined annual emissions from emissions units P002, P003, and P007 through P028 combined shall not exceed the following:
- a. 35.2 tons of particulate/PM10;
 - b. 0.3 ton of sulfur dioxide;
 - c. 9.3 tons of nitrogen oxides;
 - d. 29.5 tons of organic compounds; and
 - e. 39.9 tons of carbon monoxide.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emissions limitations and record keeping requirements.
- 2.d** Visible particulate emissions from any exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;
 - c. The calculated emission rate of nitrogen oxides, in tons;
 - d. The calculated emission rate of particulate/PM10, in tons;
 - e. The calculated emission rate of carbon monoxide, in tons; and
 - f. The calculated emission rate of organic compounds, in tons.

D. Reporting Requirements

1. The permittee shall submit annual reports of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;

- b. The calculated emission rate of sulfur dioxides, in tons;
- c. The calculated emission rate of nitrogen oxides, in tons;
- d. The calculated emission rate of particulate/PM10, in tons;
- e. The calculated emission rate of carbon monoxide, in tons; and
- f. The calculated emission rate of organic compounds, in tons.

These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the particulate and organic compound emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Meat Smokehouses, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY PM} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY PM}_{10} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - c.
$$\text{TPY OC} = [(44 \text{ Lb OC/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (11 \text{ Lbs OC/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.5 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
2. Compliance with the sulfur dioxide and nitrogen oxide emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Residential Wood Fireplaces, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY SO}_2 = [(0.4 \text{ Lb SO}_2/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (0.6 \text{ Lbs SO}_2/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.018 \text{ Lbs SO}_2/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY NO}_x = [(2.6 \text{ Lb NO}_x/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (100 \text{ Lbs NO}_x/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (14 \text{ Lbs NO}_x/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
3. Compliance with the carbon monoxide emission limitation for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from a stack test conducted on 3/6/99 at a similar facility:
 - a.
$$\text{TPY CO} = [(60.53 \text{ Lbs CO/Ton Wood Chips Burned Lbs} \times \text{Ton Wood Chips Burned/Yr}) / (2000 \text{ Lbs/Ton})].$$

Emissions Unit ID: **P027**

4. If testing is required to determine compliance with the allowable emission limitations for emissions units P002, P003, P007 through P028 then testing shall be conducted using the following method:
 - a. For PM, Method 5 of 40 CFR Part 60, Appendix A shall be used.
 - b. For PM₁₀, Method 201 of 40 CFR Part 51, Appendix M shall be used.
 - c. For SO₂, Method 6 of 40 CFR Part 60, Appendix A shall be used.
 - d. For NO_x, Method 7 of 40 CFR Part 60, Appendix A shall be used.
 - e. For OC, Method 25 of 40 CFR Part 60, Appendix A shall be used.
 - f. For CO, Method 10 of 40 CFR Part 60, Appendix A shall be used.
5. Compliance with the visible particulate emission limitation in OAC rule 3745-17-07(A)(1) shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. The terms and conditions listed above supercede those of PTI 14-04319 as issued on November 5, 1997.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P028 - Processed Meat Smokehouse 311 Modification	OAC rule 3745-31-05(A)(3)	See terms A.2.a. and A.2.b.
	OAC rule 3745-17-11	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). See term A.2.d.

2. Additional Terms and Conditions

2.a Daily emissions shall not exceed the following:

- a. 8.0 pounds of particulate/PM10;
- b. 0.1 pound of sulfur dioxide;
- c. 1.4 pound of nitrogen oxides;
- d. 6.7 pounds of organic compounds; and
- e. 9.1 pounds of carbon monoxide.

The daily emission limitations outlined are based upon the emissions unit's PTE.

Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.b** The combined annual emissions from emissions units P002, P003, and P007 through P028 combined shall not exceed the following:
- a. 35.2 tons of particulate/PM10;
 - b. 0.3 ton of sulfur dioxide;
 - c. 9.3 tons of nitrogen oxides;
 - d. 29.5 tons of organic compounds; and
 - e. 39.9 tons of carbon monoxide.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emissions limitations and record keeping requirements.
- 2.d** Visible particulate emissions from any exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P002, P003, P007 through P028:
 - a. The wood chip usage rate;
 - b. The calculated emission rate of sulfur dioxides, in tons;
 - c. The calculated emission rate of nitrogen oxides, in tons;
 - d. The calculated emission rate of particulate/PM10, in tons;
 - e. The calculated emission rate of carbon monoxide, in tons; and
 - f. The calculated emission rate of organic compounds, in tons.

D. Reporting Requirements

1. The permittee shall submit annual reports of the following information for emissions units P002, P003, P007 through P028:

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Emissions Unit ID: **P028**

- a. The wood chip usage rate;
- b. The calculated emission rate of sulfur dioxides, in tons;
- c. The calculated emission rate of nitrogen oxides, in tons;
- d. The calculated emission rate of particulate/PM10, in tons;
- e. The calculated emission rate of carbon monoxide, in tons; and
- f. The calculated emission rate of organic compounds, in tons.

These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the particulate and organic compound emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Meat Smokehouses, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY PM} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY PM}_{10} = [(53 \text{ Lb PM/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (7.6 \text{ Lbs PM/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.4 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - c.
$$\text{TPY OC} = [(44 \text{ Lb OC/Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (11 \text{ Lbs OC/MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.5 \text{ Lbs PM/1,000 gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
2. Compliance with the sulfur dioxide and nitrogen oxide emission limitations for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from the AP-42 section for Residential Wood Fireplaces, Natural Gas Combustion and Liquefied Petroleum Gas Combustion:
 - a.
$$\text{TPY SO}_2 = [(0.4 \text{ Lb SO}_2/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (0.6 \text{ Lbs SO}_2/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (0.018 \text{ Lbs SO}_2/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
 - b.
$$\text{TPY NO}_x = [(2.6 \text{ Lb NO}_x/\text{Ton Wood Chips Burned} \times \text{Ton Wood Chips Burned/Yr}) + (100 \text{ Lbs NO}_x/\text{MMcuft natural gas burned} \times \text{MMcuft natural gas burned/yr}) + (14 \text{ Lbs NO}_x/1,000 \text{ gals propane burned} \times 1,000 \text{ gals propane burned/yr})] / 2000 \text{ Lbs/Ton.}$$
3. Compliance with the carbon monoxide emission limitation for emissions units P002, P003, and P007 through P028 shall be demonstrated by the following equations using emissions factors from a stack test conducted on 3/6/99 at a similar facility:
 - a.
$$\text{TPY CO} = [(60.53 \text{ Lbs CO/Ton Wood Chips Burned Lbs} \times \text{Ton Wood Chips Burned/Yr}) / (2000 \text{ Lbs/Ton})].$$

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4. If testing is required to determine compliance with the allowable emission limitations for emissions units P002, P003, P007 through P028 then testing shall be conducted using the following method:
 - a. For PM, Method 5 of 40 CFR Part 60, Appendix A shall be used.
 - b. For PM10, Method 201 of 40 CFR Part 51, Appendix M shall be used.
 - c. For SO₂, Method 6 of 40 CFR Part 60, Appendix A shall be used.
 - d. For NO_x, Method 7 of 40 CFR Part 60, Appendix A shall be used.
 - e. For OC, Method 25 of 40 CFR Part 60, Appendix A shall be used.
 - f. For CO, Method 10 of 40 CFR Part 60, Appendix A shall be used.
5. Compliance with the visible particulate emission limitation in OAC rule 3745-17-07(A)(1) shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. The terms and conditions listed above supercede those of PTI 14-04319 as issued on November 5, 1997.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.