

Facility ID: 0607090208 Issuance type: Title V Final Permit

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part III" and before "I. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

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Facility ID: 0607090208 Issuance type: Title V Final Permit

Part II - Specific Facility Terms and Conditions

a State and Federally Enforceable Section

1. None

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Facility ID: 0607090208 Issuance type: Title V Final Permit

b State Only Enforceable Section

1. None

[Go to Part III for Emissions Unit P001](#)

[Go to Part III for Emissions Unit P002](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 0607090208 Issuance type: Title V Final Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 0607090208 Emissions Unit ID: P001 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Baker Perkins 970 tray bread baking oven	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-10(B)(1)	0.020 pound of particulates per mmBtu of actual heat input
	OAC rule 3745-31-05 (PTI 17-1366)	26.32 lbs/hr of volatile organic compounds (VOC) 115.27 tpy of VOC
		0.0028 lb/hr of sulfur dioxide (SO ₂) 0.013 tpy of SO ₂
		0.67 lb/hr of nitrogen oxides (NO _x) 2.95 tpy of NO _x

2. Additional Terms and Conditions

- a. Visible particulate emissions from the oven shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
- b. No liquid organic materials are employed in this emissions unit; therefore, OAC rule 3745-21-07(G) is not applicable.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall maintain monthly records of the following information:
 - a. the amount of baked goods produced, in tons per month, for this emissions unit;
 - b. the hours of operation for the emissions unit; and
 - c. the natural gas usage, in mmcft per month.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural

gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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V. **Testing Requirements**

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance shall be demonstrated based upon the requirements specified in OAC rule 3745-17-03(B)(1) and the methods and procedures required in 40 CFR Part 60, Appendix A, Method 9.
 - b. Emission Limitation:

0.020 pound of particulates per mmBtu of actual heat input

Applicable Compliance Method:

Divide the particulate emission factor of 1.9 lbs of particulates per million cubic feet of natural gas used by the assumed heat content of natural gas (1,000 Btu/cubic foot).

The emission factor for filterable particulates was obtained from AP-42, 5th edition (supplement B), table 1.4-2 (for units less than 10 mmBtu/hr).

If required, compliance may also be demonstrated based upon the requirements specified in OAC rule 3745-17-03(B)(10) and the methods and procedures required in 40 CFR Part 60, Appendix A, Methods 1-5.
 - c. Emission Limitation:

26.32 lbs/hr of VOC

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum hourly production rate of 4.5 tons per hour by the VOC emission factor of 5.58 pounds per ton of baked goods produced. The VOC emission factor was determined in accordance with the equation specified in section A.V.2 of this permit.
 - d. Emission Limitation:

115.27 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping specified in section A.III.2, summing the monthly production records for the calendar year, multiplying the total by the VOC emission factor of 5.58 pounds per ton of baked goods produced, and dividing by 2,000 pounds per ton.
 - e. Emission Limitation:

0.0028 lb/hr of SO₂

Applicable Compliance Method:

Compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 6.
 - f. Emission Limitation:

0.013 tpy of SO₂

Applicable Compliance Method:

Compliance with this limitation shall be demonstrated by multiplying the allowable hourly SO₂ emission rate by the actual hours of operation, and then dividing by 2000 lbs/ton.
 - g. Emission Limitation:

0.67 lb/hr of NO_x

Applicable Compliance Method:

Compliance shall be determined by multiplying the actual annual natural gas usage by the AP-42 emission factor for NOx (140 pounds per million cubic feet) and dividing by the actual annual hours of operation.

h. Emission Limitation:

2.95 tpy of NOx

Applicable Compliance Method:

Compliance shall be determined by multiplying the actual annual natural gas fuel usage by the AP-42 emission factor for NOx (140 pounds per million cubic foot), and dividing by 2,000 pounds per ton.

2. The VOC emission factor referred to in sections A.V.1.c and A.V.1.d (5.58 lbs of VOC per ton of bread) was calculated by using the following equation:

$$\text{VOC} = 0.95Y_i + 0.195t_i - 0.51S - 0.86t_s + 1.90$$

where:

VOC = emission factor in pounds of uncontrolled VOC emissions per ton of bread or other yeast leavened product produced;

Y_i = initial baker's percent of yeast, to the nearest tenth of a percent;

t_i = total yeast action time (fermentation time) of initial yeast, in hours, to the nearest tenth of an hour;

S = final (spiking) baker's percent of yeast, to the nearest tenth of a percent; and

t_s = spiking yeast action time, in hours, to the nearest tenth of an hour.

The value for the VOC emission factor is the same for all yeast leavened products.

The above equation was taken from the USEPA publication "Alternative Control Technology Document for Bakery Oven Emissions" (EPA 453/R-92-017), dated December, 1992.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 0607090208 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 0607090208 Emissions Unit ID: P001 Issuance type: Title V Final Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. **Additional Terms and Conditions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

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

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 0607090208 Issuance type: Title V Final Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 0607090208 Emissions Unit ID: P002 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Peterson Bun Oven, 2.96 mmBtu/hr Peterson DAS 44059	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-10(B)(1)	0.020 pound of particulates per mmBtu of actual heat input

2. Additional Terms and Conditions

- a. Visible particulate emissions from the oven shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
- b. No liquid organic materials are employed in this emissions unit; therefore, OAC rule 3745-21-07(G) is not applicable.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. The permittee shall burn only natural gas as fuel in this emissions unit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

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

- a. For each day that the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- a. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. Compliance with the emission limitations in sections A.1.1 and A.1.2 of these terms and conditions shall be determined in accordance with the following methods:
- a. Emission Limitation:
- 20% opacity as a 6-minute average
- Applicable Compliance Method:
- Compliance shall be demonstrated based upon the requirements specified in OAC rule 3745-17-03(B)(1) and the methods and procedures required in 40 CFR Part 60, Appendix A, Method 9.
- b. Emission Limitation:
- 0.020 pound of particulates per mmBtu of actual heat input
- Applicable Compliance Method:
- Divide the particulate emission factor of 1.9 lbs of particulates per million cubic feet of natural gas used by the assumed heat content of natural gas (1,000 Btu/cubic foot).
- The emission factor for filterable particulates was obtained from AP-42, 5th edition (supplement B), table 1.4-2 (for units less than 10 mmBtu/hr).
- If required, compliance shall also be demonstrated based upon the requirements specified in OAC rule 3745-17-03(B)(10) and the methods and procedures required in 40 CFR Part 60, Appendix A, Methods 1-5.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 0607090208 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 0607090208 Emissions Unit ID: P002 Issuance type: Title V Final Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall

not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. **Additional Terms and Conditions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

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

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None