

Facility ID: 0660010244 Issuance type: Final State Permit To Operate

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

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

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

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

Facility ID: 0660010244 Emissions Unit ID: P001 Issuance type: Final State Permit To Operate

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

Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P001 - One bakery oven.	OAC rule 3745-31-05 (A)(3) PTI # 06-06403 Issue Date:8/28/2001	Organic Compound (OC) emissions shall not exceed 24.97 pounds per hour. NOx emissions shall not exceed 0.6 pound per hour and 2.2 tons per year.
	OAC rule 3745-35-07(B)	The requirements of this rule also include compliance with the requirements of OAC rule(s) 3745-17-07(A), 3745-17-10(B)(1), and 3745-35-07(B). OC emissions shall not exceed 93.3 tons per rolling 12 - month period.
	OAC rule 3745-17-07 (A)	Visible particulate emissions from the oven shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10 (B)(1)	Emissions of particulate matter from the oven shall not exceed 0.020 pound per million Btu actual heat input.

2. Additional Terms and Conditions

- (b) No liquid organic materials are employed in this emissions unit; therefore, OAC rule 3745-21-07 (G) is not applicable.

B. Operational Restrictions

1. The maximum annual production rate for this emissions unit shall not exceed 31,375 tons of baked goods in any 12 - month period.
2. The permittee shall burn only natural gas in this emissions unit.

C. Monitoring and/or Record Keeping Requirements

1. For each day during which 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.
2. The permittee shall maintain records of the following information:
 - a. The production rate of the amount of baked goods produced each month.
 - b. A rolling 12-month summation of the amount of baked goods produced.
 - c. A monthly record of the cumulative amount of baked goods produced for each calendar month.
3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;

- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

D. 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.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12- month amount of baked goods produced limitation. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A).
3. The permittee shall submit semiannual written reports that:
 - a. identify all days during which any abnormal visible particulate emissions were observed from this emissions unit's stack; and
 - b. describe any corrective actions taken to minimize or eliminate the visible particulate emissions.

These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period. If there are no visible emissions to report, such a statement shall be submitted as a report.

E. Testing Requirements

1. Emissions Limitation:
Organic Compound (OC) emissions shall not exceed 24.97 pounds per hour.

Compliance Method:
Compliance shall be determined by multiplying the maximum hourly production rate of 4.19 tons by a OC emission factor of 5.96 lbs/ton. The OC emission factor was determined in accordance with the equation specified in Section E.6 of this permit.
1. Emissions Limitation:
NOx emissions shall not exceed 0.6 pound per hour.

Compliance Method:
Compliance shall be determined by multiplying the actual annual natural gas fuel usage by the AP-42 emission factor for NOx (140 lbs/million cubic feet), and dividing by 2,000 lbs/ton and the actual annual hours of operation.
Emissions Limitation:
NOx emissions shall not exceed 2.2 tons per year.

Compliance Method:
Compliance shall be determined by multiplying the actual annual natural gas fuel usage by the AP-42 emission factor for NOx (140 lbs/million cubic feet), and dividing by 2,000 lbs/ton.
3. Emissions Limitation:
OC emissions shall not exceed 93.3 tons per rolling 12 - month period.

Compliance Method:
Compliance shall be based on the record keeping specified in Section C.2., summing the monthly records for the calendar year, multiplying the total by the OC emission factor of 5.96 lbs/ton, and dividing by 2,000 lbs/ton.
4. Emissions Limitation:
Visible particulate emissions from the oven shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Compliance Method:
Compliance with the visible emission limit shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03 (B)(1). No visible emission testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04 (A).
5. Emissions Limitation:
Emissions of particulate matter from the oven shall not exceed 0.020 pound per million Btu actual heat input.

Compliance Method:
Particulate matter emissions shall be determined by dividing the applicable AP42, 5th Edition (supplement B) emissions factor for filterable particulate matter from table 1.4-2 (for units less than 10 million Btu/hr) by the assumed heat content of natural gas (1000 Btu/cubic foot):

(4.5 lbs particulate matter/million cubic feet)/(1000 mmBtu/mm cubic feet) = 0.0045 lb particulate matter/million Btu)

Emissions tests also may be required in accordance with 40 CFR Part 60, Appendix A, Methods 1-5. No emissions testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04 (A).

6. The emission factor in sections 1 and 3 above (5.96 lbs OC/ton of bread) was calculated by using the following equation:

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

where

OC ef = emission factor in pounds of uncontrolled OC 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 OC ef 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.

F. **Miscellaneous Requirements**

1. None