

Facility ID: 0575010232 Issuance type: Draft 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: 0575010232 Emissions Unit ID: P001 Issuance type: Draft State Permit To Operate

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Part II - Special Terms and Conditions

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

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P001 - pizza dough baking oven #3 using the straight-dough process	OAC rule 3745-31-05(A)(3) PTI 05-11194	8.3 lbs/hour VOC. 92.25 TPY volatile organic compounds (VOC) combined from emissions units P001, P002 and P003 per rolling 12 month period. Emissions from natural gas oven shall not exceed: 0.15 lbs/hr and 0.66 TPY NOx; 0.13 lbs/hr and 0.55 TPY CO; 0.01 lbs/hr and 0.05 TPY PM; 0.008 lbs/hr and 0.04 TPY VOC; 0.001 lb/hr and 0.004 TPY SO2.
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average.
	OAC rule 3745-21-07(G)	The emissions limitation specified by this rule is less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-35-07(B)	See section B.1.

2. **Additional Terms and Conditions**
 - (a) The 8.3 lbs/hour VOC limitation is being developed to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to establish record keeping and/or reporting requirements to ensure compliance with this limit.

B. Operational Restrictions

1. The maximum annual production rate of yeast dough products shall not exceed 50,000 tons combined for emissions units P001, P002 and P003 for a rolling 12-month period.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. The production rate for each month, in tons.
 - b. The calculated VOC emission rate (3.69 lbs VOC/ton * C.1.a.), in pounds.
 - c. The rolling 12-month summation of production calculated by adding the current month's asphalt production to the asphalt production for the preceding eleven calendar months.
 - d. The rolling 12-month summation of VOC emissions by adding the current month's VOC emission to the VOC emissions for the preceding eleven calendar months.
 - e. Natural gas usage.

D. Reporting Requirements

1. The permittee shall submit annual reports which specify the total oven production rate and the volatile organic

compound emissions for the previous calendar year. These reports shall be submitted by January 31 of each year.

2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling 12-month production limitation and/or 12-month rolling VOC mass emissions limitation.

E. Testing Requirements

1. Compliance with the emission limitations specified in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation -
8.3 lbs/hour VOC

Applicable Compliance Method -

Compliance shall be determined by multiplying the maximum hourly production rate (in tons) by a VOC emission factor of 3.69 pounds VOC/ton of yeast dough product. The VOC emission factor was determined in accordance with the equation from AP-42 Chapter 9.9.6 (2/97) as specified in E.2. below.

Emission Limitation -
92.25 tons VOC/year

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in C.1.

Emission Limitation -
50,000 tons yeast dough product/year combined for emissions units P001, P002 and P003.

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in C.1.

Emission Limitation -
0.15 lb of NOx/MMBTU of actual heat input

Applicable Compliance Method -

Compliance shall be based upon multiplying the maximum hourly natural gas combustion rate (MM cu. ft/hr) by the emission factor from AP-42, Table 1.4-1 (revised 7/98) 100 pounds of NOx/MM cu. ft., and then dividing by the maximum heat input to the oven (mmBTU/hr).

If required, compliance with the NOx emission limit above shall be determined by emission testing performed in accordance with Methods 1-4 and 7 of 40 CFR, Part 60 Appendix A.

Emission Limitation -
0.13 lb of CO/MMBTU of actual heat input

Applicable Compliance Method -

Compliance shall be based upon multiplying the maximum hourly natural gas combustion rate (MM cu. ft/hr) by the emission factor from AP-42, Table 1.4-1 (revised 7/98) 84 pounds of CO/MM cu. ft., and then dividing by the maximum heat input to the oven (mmBTU/hr).

If required, compliance with the CO emission limit above shall be determined by emission testing performed in accordance with Methods 1-4 and 10 of 40 CFR, Part 60 Appendix A.

Emission Limitation -
0.01 lb of PM/MMBTU of actual heat input

Applicable Compliance Method -

Compliance shall be based upon multiplying the maximum hourly natural gas combustion rate (MM cu. ft/hr) by the emission factor from AP-42, Table 1.4-2 (revised 7/98) 7.6 pounds of PM/MM cu. ft., and then dividing by the maximum heat input to the oven (mmBTU/hr).

If required, compliance with the PE emission limit above shall be determined by emission testing performed in accordance with Methods 1-5 of 40 CFR, Part 60 Appendix A.

Emission Limitation -
0.001 lb of SO₂/MMBTU of actual heat input

Applicable Compliance Method -

Compliance shall be based upon multiplying the maximum hourly natural gas combustion rate (MM cu. ft/hr) by the emission factor from AP-42, Table 1.4-2 (revised 7/98) 0.6 pounds of SO₂/MM cu. ft., and then dividing by the maximum heat input to the oven (mmBTU/hr).

If required, compliance with the PE emission limit above shall be determined by emission testing performed in accordance with Methods 1-4 and 6 of 40 CFR, Part 60 Appendix A.

Emission Limitation -
0.008 lb of VOC/MMBTU of actual heat input

Applicable Compliance Method -

Compliance shall be based upon multiplying the maximum hourly natural gas combustion rate (MM cu. ft/hr) by the emission factor from AP-42, Table 1.4-2 (revised 7/98) 5.5 pounds of VOC/MM cu. ft., and then dividing by the maximum heat input to the oven (mmBTU/hr).

If required, compliance with the PE emission limit above shall be determined by emission testing performed in accordance with Methods 1-4 and 25 of 40 CFR, Part 60 Appendix A

2. The emission factor of 3.69 pounds VOC/ton of yeast dough product, was calculated by using the following equation:

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

where:

VOC(ef) = 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 (1.75%)

t_i = total yeast action time (fermentation time) of initial yeast, in hours, to the nearest tenth of an hour (0.67 hour)

S = final (spiking) baker's percent of yeast to the nearest tenth of a percent (0%)

t_s = spiking yeast action time, in hours, to the nearest tenth of an hour (0 hours)

The value of $VOC_{(ef)}$ is the same for all yeast leavened products in this emissions unit.

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 and is also contained in AP-42 Chapter 9.9.6 (2/97).

F. Miscellaneous Requirements

1. To assure Federally Enforceable Limitations and compliance during the first year of this permit, combined material usage for emissions units P001, P002 and P003 shall not exceed the following:

YEAST DOUGH
MONTH PRODUCTION (TONS)
1 4166.6
2 8333.3
3 12500.0
4 16666.6
5 20833.3
6 25000.0
7 29166.6
8 33333.3
9 37500.0
10 41666.6
11 45833.3
12 50000.0

This facility shall maintain records that will demonstrate the combined total material usage for each of the monthly limitations.