

Facility ID: 0536000088 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: 0536000088 Emissions Unit ID: P901 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

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

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

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P901-Grain Dryer M-C 970 E 5 T/HR	OAC rule 3745-31-05(A)(3) and PTI 05 06765	Visible fugitive PE shall not exceed 20% opacity as a 3-minute average.  Overall particulate emissions (PE) from this emissions unit shall not exceed 24.5 lbs per day.  Emissions from natural gas combustion shall not exceed the following rates:  NOx emissions shall not exceed 8.9 lbs/day; CO emissions shall not exceed 1.8 lbs/day; SO2 emissions shall not exceed 0.05 lbs/day; and VOC emissions shall not not exceed 0.5 lbs/day.
	OAC rule 3745-17-07 (B) OAC rule 3745-17-08(B) 40 CFR, Part 60, Subpart DD	A.2.a below. See A.2.b See A.2.c Exempt, pursuant to 40 CFR, Part 60, Subpart DD, Section 60.304.  See A.2.d.

**2. Additional Terms and Conditions**

- (a) The "Best Available Technology" (BAT) control requirement for this emissions unit has been determined to be the use of column plate perforation with a diameter equal to or less than 0.094 inches. This emissions unit is exempt from the visible particulate emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e). Bobb Brothers, Inc. is not located within an "Appendix A" area identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B). 40 CFR Part 60 Subpart DD, applies to installations and modifications at grain terminal elevator or grain storage elevator, which have a permanent grain storage capacity of 1,000,000 bushels capacity. This emissions unit is located at a country grain elevator that has a permanent grain storage capacity of 925,000 bushels. Since the permanent grain storage capacity at this facility is below 1,000,000 bushels, this emissions unit is not subject to the requirements of Subpart DD, at this time.

**B. Operational Restrictions**

1. The maximum annual throughput from emissions unit P901 shall not exceed 1,400 tons of grain.

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

1. The permittee shall maintain monthly records of the amount of grain throughput for this emissions unit (in tons per month and total tons, to date for the calendar year).

**D. Reporting Requirements**

1. The permittee shall submit annual reports which identify any exceedance of the annual grain throughput limitation.

as well as the corrective actions that were taken to achieve compliance. If no deviations occurred during the calendar year, the permittee shall submit an annual report, which states that no deviations occurred during that calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

**E. Testing Requirements**

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

Emission Limitation:

Visible PE shall not exceed 20% opacity as a six-minute average, except as provided by rule.

Visible PE from any stack serving an indirect-fired oven zone associated with this emissions unit shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) and 40 CFR Part 60, Appendix A, Method 9.

Emission Limitation:

24.5 lbs of particulate emissions (PE)/day

Applicable Compliance Method:

Compliance with the above emission limitation shall be based upon the following equation:

$$PER = [(Gp \times EF) \times (1 - Cf)] + (Ur \times Ef)$$

where:

PER = Particulate Emission Rate, in lbs/day;

Gp= Maximum amount of grain processed, tons per day (the summation of: (5 tons/hr x 24 hrs/day = 120 tons/day, from permit application and Emission Activity Category form):

EF= Emission factor for grain throughput, lbs/ton dried (0.5, RACM Table 2.6-1);

Cf= Control efficiency, 60%, (best assumption available);

Ur = Fuel usage rate, MMft<sup>3</sup>/day, (the summation of: {(3.7 MMBTU/hr)/ 1000 BTU/ft<sup>3</sup>} x 24 hrs/day)= 8.88 MMft<sup>3</sup> E-2/day); and

Ef = Emission factor for particulate emissions from natural gas combustion, lbs/MMft<sup>3</sup>, ( 5 lbs/ mm ft<sup>3</sup>, from AP-42 Table 1.4-1).

Emission Limitation:

2.03 TPY NOx 8.9 lbs/day;

0.41 TPY CO 1.8 lbs/day;

0.11 TPY SO<sub>2</sub> 0.05 lbs/day; and

0.11 TPY VOC 0.5 lbs/day.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the AP-42 emission factors of 100 lb/mmcf for NOx, 84 lb/mmcf for CO, 7.6 lb/mmcf for PE, 0.6 lb/mmcf for SO<sub>2</sub>, and 5.5 lb/mmcf for VOC (Tables 1.4-1 and 1.4-2 (8/98)) by the hourly gas usage (0.0037mm cf/hr), and multiplying by 8760 hrs/yr and multiplying by a conversion factor of 1 ton/2000 lbs.

**F. Miscellaneous Requirements**

1. None