

Facility ID: 0684000208 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: 0684000208 Emissions Unit ID: P002 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>
P002 - 945 HP Caterpillar Model G3512LE natural gas fired reciprocating internal combustion engine with Miratech IQS-22-10-H1 oxidation catalyst	OAC rule 3745-31-05(A)(3) PTI # 06-07595	Emissions shall not exceed: 4.17 pounds per hour (lbs/hr) and 18.3 tons per year (tpy) of nitrogen oxides (NOx); 0.38 lbs/hr and 1.6 tpy of carbon monoxide (CO); 0.6 lb/hr and 2.7 tpy of organic compounds (OC); and 1.77 tpy of particulate emissions (PE). The requirements of this rule also include compliance with the requirements of OAC rules 3745-35-07(B), 3745-17-11(B)(5)(b) and 3745-17-07(A).
	OAC rule 3745-17-11(B)(5)(b)	PE shall not exceed 0.35 lb/million Btu actual heat input. See A.2.a below.
	OAC rule 3745-17-07(A)(1)	PE shall not exceed 0.062 lb/million Btu actual heat input. See A.2.b below.
	OAC rule 3745-18-06(G) OAC rule 3745-23-06(B)	Visible emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule Exempt. See Section A.2.c below. See Section A.2.d below.

2. Additional Terms and Conditions

- (a) The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.062 lb/million Btu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter. This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter. This emissions unit is exempt from the requirements of OAC rule 3745-18-06(G) pursuant to OAC rule 3745-18-06(B). The permittee has satisfied the "latest available control techniques and operating practices required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install.

B. Operational Restrictions

1. 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.

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.

E. Testing Requirements

1. Compliance with the emissions limitations in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitation:
Emissions shall not exceed 4.17 lbs/hr NOx.

Applicable Compliance Method:
If required, nitrogen oxides emissions shall be determined according to test Methods 1 - 4, and 7 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

Emissions Limitation:
Emissions shall not exceed 18.3 tpy of NOx.

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the maximum hourly emission rate (4.17 lbs/hr) by the maximum annual hours of operation (8,760 hours) and then dividing by 2,000 lbs/ton.

Emissions Limitation:
Emissions shall not exceed 0.38 lbs/hr of CO.

Applicable Compliance Method:
If required, carbon monoxide emissions shall be determined according to test Methods 1 - 4, and 10 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

Emissions Limitation:
Emissions shall not exceed 1.6 tpy of CO.

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the maximum hourly emission rate (0.38 lbs/hr) by the maximum annual hours of operation (8,760 hours) and then dividing by 2,000 lbs/ton.

Emission Limitation:
Emissions shall not exceed 0.6 lbs/hr of OC.

Applicable Compliance Method:
If required, organic compound emissions shall be determined according to test Methods 1 - 4, and 18, 25, or 25a as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

Emission Limitation:
Emissions shall not exceed 2.7 tpy of OC.

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the maximum hourly emission rate (0.6 lbs/hr) by the maximum annual hours of operation (8,760 hours) and then dividing by 2,000 lbs/ton.

Emission Limitation:
Particulate emissions shall not exceed 0.35 lb/million Btu actual heat input.

Applicable Compliance Method:
Compliance shall be based upon an emission factor of 0.029 lb/million Btu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-2 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

Emission Limitation:
Particulate emissions shall not exceed 0.062 lb/million Btu of actual heat input.

Applicable Compliance Method:
Compliance shall be based upon an emission factor of 0.029 lb/million Btu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-2 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

Emissions Limitation:
Emissions shall not exceed 1.77 ton PE per year.

Applicable Compliance Method:
Compliance shall be determined by multiplying the PE emission limitation of 0.062 lb/million Btu of actual heat input by the maximum heat input of P002 (6.52 million Btu/hr) and by the maximum annual hours of operation (8,760 hours) and then dividing by 2,000 lbs/ton.

Emissions Limitation:
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method:
If required, visible particulate emissions shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources" as such appendix existed on July 1, 2002.

F. Miscellaneous Requirements

1. 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.