Facility ID: 1318008498 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.

Go to Part II for Emissions Unit B001
Go to Part II for Emissions Unit B002
Go to Part II for Emissions Unit B003

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Facility ID: 1318008498 Emissions Unit ID: B001 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
B001 - 2000 kilowatt (20 mm BTU/hr) diesel fired generator #1. This emissions unit was installed in July 2005.	OAC rule 3745-31-05(A)(3) PTI 13-04678 Issued 4/17/07	38.88 lbs/hour of NOx emissions; 10.33 lbs/hour of SO2 emissions; 1.24 lbs/hour of PM/PM10 emissions; and 7.45 lbs/hour and 2.98 tons/year of CO emissions. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(5)(b), 3745-17-07(A) and 3745-31-05(C).
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(5)(b)	0.062 lb/mm Btu of particulate emissions of actual heat input.
	OAC rule 3745-18-06(G)	0.5 pound of sulfur dioxide per MM Btu actual heat input.
	OAC rule 3745-31-05(C) Synthetic Minor to avoid PSD, Nonattainment NSR, and Title V.	15.55 tons/year* NOx emissions; 4.13 tons/year* SO2 emissions; and 0.50 ton/year* of PM/PM10 emissions. * per rolling, 12-month period See term B.2 below.

2. **Additional Terms and Conditions**

(b) None

B. **Operational Restrictions**

1. The permittee shall use only diesel fuel with a sulfer content less than 0.5% by weight in the engine and generator.

2. The maximum annual operating hours for this emissions unit shall not exceed 800 hrs/yr, based upon a rolling, 12-month summation of the operating hours.

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

1. The permittee shall maintain monthly records of the following information:

a. the operating hours for each month; and

b. the rolling, 12-month summation of the operating hours.

2. For each day during which the permittee burns a fuel other than diesel fuel the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit. The permittee shall also maintain documentation on

the sulfur content of all fuels received.

D. **Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month limitation on the hours of operation.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than diesel 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 emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation:
38.88 lbs/hour of NOx emissions

Applicable Compliance Method
If required, compliance shall be determined by performing a stack test using Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

b. Emission Limitation:
10.33 lbs/hour of SO2 emissions

Applicable Compliance Method
If required, compliance shall be determined by performing a stack test using Methods 1 through 4, and 6, 6A, 6B or 6C as specified in 40 CFR Part 60, Appendix A and 40 CFR 60.46.
c. Emission Limitation:
7.45 lbs/hour of CO emissions; and
2.98 ton/year of CO emissions

Applicable Compliance Method
If required, compliance shall be determined by performing a stack test using Methods 1-4 and Method 10 as specified in 40 CFR Part 60, Appendix A.

The tons/year limitations were developed by multiplying the lb/hour by the maximum operating schedule of 800 hours/year, and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitations, compliance will also be shown with the annual limitation as long as the permittee does not exceed 800 hours annually.
d. Emissions Limitation:
1.24 lbs/hour of PM/PM10 emissions;

Applicable Compliance Method
If required, compliance shall be determined by performing a stack test using Methods 1-5 of 40 CFR Part 60, Appendix A.

e. Emission Limitation:
Visible particulate emissions shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:
Compliance with the above visible emission limitation shall be determined through performance testing using Method 9 of 40 CFR, Part 60, Appendix A.

f. Emission Limitation:
0.062 lb PM/mmBtu

Applicable Compliance Method
If required, compliance shall be determined by performing a stack test using Methods 1-5 of 40 CFR Part 60, Appendix A.
g. Emission Limitation:
0.5 pound of sulfur dioxide per MM Btu actual heat input and 10.33 lbs/hr of SO2 emissions.

Applicable Compliance Method
If required, compliance shall be determined by performing a stack test using Methods 1 through 4, and 6, 6A, 6B or 6C as specified in 40 CFR Part 60, Appendix A and 40 CFR 60.46.
Alternatively, compliance with the lb/MM Btu limitation may be determined in accordance with OAC rule 3745-18-04(F)(2) as follows:

ER = [(1,000,000) / H] x D x S x 1.974

where:

ER = the emission rate in pounds of sulfur dioxide per MM Btu;
H = the heat content of the liquid fuel in Btu per gallon;
D = the density of the liquid fuel in pounds per gallon; and
S = the decimal fraction of sulfur in the liquid fuel.
h. Emission Limitation:
15.55 tons/year of NOx emissions per rolling, 12-month period;
4.13 tons/year of SO2 emissions per rolling, 12-month period; and
0.50 ton/year of PM/PM10 emissions per rolling, 12-month period.

Applicable Compliance Method
The tons/year limitations were developed by multiplying the lb/hour by the maximum operating schedule of 800 hours/year, and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitations, compliance will also be shown with the annual limitation as long as the permittee does not exceed

800 hours of operation annually.

F. **Miscellaneous Requirements**

1. The following section in this permit are federally enforceable: A, B, C, D and E.

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Facility ID: 1318008498 Emissions Unit ID: B002 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
B002 - 2000 kilowatt (20 mm BTU/hr) diesel fired generator #2. This emissions unit was installed in July 2005.	OAC rule 3745-31-05(A)(3) PTI 13-04678 Issued 4/17/07	38.88 lbs/hour of NOx emissions; 10.33 lbs/hour of SO2 emissions; 1.24 lbs/hour of PM/PM10 emissions; and 7.45 lbs/hour and 2.98 tons/year of CO emissions. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(5)(b), 3745-17-07(A) and 3745-31-05(C).
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(5)(b)	0.062 lb/mm Btu of particulate emissions of actual heat input.
	OAC rule 3745-18-06(G)	0.5 pound of sulfur dioxide per MM Btu actual heat input.
	OAC rule 3745-31-05(C) Synthetic Minor to avoid PSD, Nonattainment NSR, and Title V.	15.55 tons/year* NOx emissions; 4.13 tons/year* SO2 emissions; and 0.50 ton/year* of PM/PM10 emissions. * per rolling, 12-month period See term B.2 below.

2. **Additional Terms and Conditions**

   (b) None

B. **Operational Restrictions**

1. The permittee shall use only diesel fuel with a sulfer content less than 0.5% by weight in the engine and generator.

2. The maximum annual operating hours for this emissions unit shall not exceed 800 hrs/yr, based upon a rolling, 12-month summation of the operating hours.

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

1. The permittee shall maintain monthly records of the following information:

   a. the operating hours for each month; and

   b. the rolling, 12-month summation of the operating hours.

2. For each day during which the permittee burns a fuel other than diesel fuel the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit. The permittee shall also maintain documentation on the sulfur content of all fuels received.

D. **Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month limitation on the hours of operation.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than diesel 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 emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation:
38.88 lbs/hour of NOx emissions

Applicable Compliance Method
If required, compliance shall be determined by performing a stack test using Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

b. Emission Limitation:
10.33 lbs/hour of SO2 emissions

Applicable Compliance Method
If required, compliance shall be determined by performing a stack test using Methods 1 through 4, and 6, 6A, 6B or 6C as specified in 40 CFR Part 60, Appendix A and 40 CFR 60.46.
c. Emission Limitation:
7.45 lbs/hour of CO emissions; and
2.98 ton/year of CO emissions

Applicable Compliance Method
If required, compliance shall be determined by performing a stack test using Methods 1-4 and Method 10 as specified in 40 CFR Part 60, Appendix A.

The tons/year limitations were developed by multiplying the lb/hour by the maximum operating schedule of 800 hours/year, and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitations, compliance will also be shown with the annual limitation as long as the permittee does not exceed 800 hours annually.
d. Emissions Limitation:
1.24 lbs/hour of PM/PM10 emissions;

Applicable Compliance Method
If required, compliance shall be determined by performing a stack test using Methods 1-5 of 40 CFR Part 60, Appendix A.

e. Emission Limitation:
Visible particulate emissions shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:
Compliance with the above visible emission limitation shall be determined through performance testing using Method 9 of 40 CFR, Part 60, Appendix A.

f. Emission Limitation:
0.062 lb PM/mmBtu

Applicable Compliance Method
If required, compliance shall be determined by performing a stack test using Methods 1-5 of 40 CFR Part 60, Appendix A.
g. Emission Limitation:
0.5 pound of sulfur dioxide per MM Btu actual heat input and 10.33 lbs/hr of SO2 emissions.

Applicable Compliance Method
If required, compliance shall be determined by performing a stack test using Methods 1 through 4, and 6, 6A, 6B or 6C as specified in 40 CFR Part 60, Appendix A and 40 CFR 60.46.
Alternatively, compliance with the lb/MM Btu limitation may be determined in accordance with OAC rule 3745-18-04(F)(2) as follows:

ER = [(1,000,000) / H] x D x S x 1.974

where:

ER = the emission rate in pounds of sulfur dioxide per MM Btu;
H = the heat content of the liquid fuel in Btu per gallon;
D = the density of the liquid fuel in pounds per gallon; and
S = the decimal fraction of sulfur in the liquid fuel.
h. Emission Limitation:
15.55 tons/year of NOx emissions per rolling, 12-month period;
4.13 tons/year of SO2 emissions per rolling, 12-month period; and
0.50 ton/year of PM/PM10 emissions per rolling, 12-month period.

Applicable Compliance Method
The tons/year limitations were developed by multiplying the lb/hour by the maximum operating schedule of 800 hours/year, and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitations, compliance will also be shown with the annual limitation as long as the permittee does not exceed 800 hours of operation annually.

F. **Miscellaneous Requirements**

1. The following section in this permit are federally enforceable: A, B, C, D and E.

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Facility ID: 1318008498 Emissions Unit ID: B003 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
B003 - 2000 kilowatt (20 mm BTU/hr) diesel fired generator #3. This emissions unit was installed in July 2005.	OAC rule 3745-31-05(A)(3) PTI 13-04678 Issued 4/17/07	38.88 lbs/hour of NOx emissions; 10.33 lbs/hour of SO2 emissions; 1.24 lbs/hour of PM/PM10 emissions; and 7.45 lbs/hour and 2.98 tons/year of CO emissions. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(5)(b), 3745-17-07(A) and 3745-31-05(C).
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(5)(b)	0.062 lb/mm Btu of particulate emissions of actual heat input.
	OAC rule 3745-18-06(G)	0.5 pound of sulfur dioxide per MM Btu actual heat input.
	OAC rule 3745-31-05(C) Synthetic Minor to avoid PSD, Nonattainment NSR, and Title V.	15.55 tons/year* NOx emissions; 4.13 tons/year* SO2 emissions; and 0.50 ton/year* of PM/PM10 emissions. * per rolling, 12-month period See term B.2 below.

2. **Additional Terms and Conditions**

(b) None

B. **Operational Restrictions**

1. The permittee shall use only diesel fuel with a sulfer content less than 0.5% by weight in the engine and generator.

2. The maximum annual operating hours for this emissions unit shall not exceed 800 hrs/yr, based upon a rolling, 12-month summation of the operating hours.

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

1. The permittee shall maintain monthly records of the following information:

a. the operating hours for each month; and

b. the rolling, 12-month summation of the operating hours.

2. For each day during which the permittee burns a fuel other than diesel fuel the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit. The permittee shall also maintain documentation on the sulfur content of all fuels received.

D. **Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-

month limitation on the hours of operation.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than diesel 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 emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation:
38.88 lbs/hour of NOx emissions

Applicable Compliance Method
If required, compliance shall be determined by performing a stack test using Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

b. Emission Limitation:
10.33 lbs/hour of SO2 emissions

Applicable Compliance Method
If required, compliance shall be determined by performing a stack test using Methods 1 through 4, and 6, 6A, 6B or 6C as specified in 40 CFR Part 60, Appendix A and 40 CFR 60.46.
c. Emission Limitation:
7.45 lbs/hour of CO emissions; and
2.98 ton/year of CO emissions

Applicable Compliance Method
If required, compliance shall be determined by performing a stack test using Methods 1-4 and Method 10 as specified in 40 CFR Part 60, Appendix A.

The tons/year limitations were developed by multiplying the lb/hour by the maximum operating schedule of 800 hours/year, and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitations, compliance will also be shown with the annual limitation as long as the permittee does not exceed 800 hours annually.
d. Emissions Limitation:
1.24 lbs/hour of PM/PM10 emissions;

Applicable Compliance Method
If required, compliance shall be determined by performing a stack test using Methods 1-5 of 40 CFR Part 60, Appendix A.

e. Emission Limitation:
Visible particulate emissions shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:
Compliance with the above visible emission limitation shall be determined through performance testing using Method 9 of 40 CFR, Part 60, Appendix A.

f. Emission Limitation:
0.062 lb PM/mmBtu

Applicable Compliance Method
If required, compliance shall be determined by performing a stack test using Methods 1-5 of 40 CFR Part 60, Appendix A.
g. Emission Limitation:
0.5 pound of sulfur dioxide per MM Btu actual heat input and 10.33 lbs/hr of SO2 emissions.

Applicable Compliance Method
If required, compliance shall be determined by performing a stack test using Methods 1 through 4, and 6, 6A, 6B or 6C as specified in 40 CFR Part 60, Appendix A and 40 CFR 60.46.
Alternatively, compliance with the lb/MM Btu limitation may be determined in accordance with OAC rule 3745-18-04(F)(2) as follows:

ER = [(1,000,000) / H] x D x S x 1.974

where:

ER = the emission rate in pounds of sulfur dioxide per MM Btu;
H = the heat content of the liquid fuel in Btu per gallon;
D = the density of the liquid fuel in pounds per gallon; and
S = the decimal fraction of sulfur in the liquid fuel.
h. Emission Limitation:
15.55 tons/year of NOx emissions per rolling, 12-month period;
4.13 tons/year of SO2 emissions per rolling, 12-month period; and
0.50 ton/year of PM/PM10 emissions per rolling, 12-month period.

Applicable Compliance Method
The tons/year limitations were developed by multiplying the lb/hour by the maximum operating schedule of 800 hours/year, and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitations, compliance will also be shown with the annual limitation as long as the permittee does not exceed 800 hours of operation annually.

F. **Miscellaneous Requirements**

1. The following section in this permit are federally enforceable: A, B, C, D and E.