

Facility ID: 1652100085 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.

[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: 1652100085 Emissions Unit ID: B001 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>
Caterpillar stationary large internal combustion (IC) diesel engine (rated output power of 2568 BHP model 3516A) driving an electrical generator (rated output power of 1800 KW)	OAC rule 3745-31-05(A)(3) (PTI 16-01366)	See A.2.a-f below.
	OAC rule 3745-31-05(C)	NOx emissions from the facility, which consists of three (3) identical diesel-powered electrical generator units, B001 through B003, shall not exceed 99.9 tons/year, based upon a rolling, 12-month summation of the monthly emissions, per the fuel usage, and operating hours restriction of Part II, Section B.1, and B.2 below. This is a synthetic minor potential to emit condition and shall be a federally enforceable requirement.
	OAC rule 3745-17-07(A) OAC rule 3745-17-11(B)(5)(b)	The emission limitations required by these applicable rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(G)	See A.2.g below.

**2. Additional Terms and Conditions**

- (a) The permittee shall not cause or permit the particulate emissions from the engine's exhaust to exceed 0.062 pound per million Btu of actual heat input.
 

Based on application data, the rated maximum heat input capacity of this emissions unit is 17.50 million Btu per hour. Therefore, maximum hourly emissions of particulates from this emissions unit shall not exceed 1.09 pound per hour.

Facility-wide annual emissions of particulate emissions are limited below the Title V threshold level of 100 tons per year by federally enforceable limits on both the annual hours of operation and the annual fuel usage, as established in permit-to-install (PTI) 16-1366 for this emissions unit and the other two emissions units at this facility.

The permittee shall not cause or permit the sulfur dioxide emissions from this emissions unit to exceed 0.3 pound per million Btu of actual heat input.

Based on application data, the rated maximum heat input capacity of this emissions unit is 17.5 million Btu per hour. Therefore, maximum hourly emissions of sulfur dioxide from this emissions unit shall not exceed 5.25 pounds per hour.

Facility-wide annual emissions of sulfur dioxide are limited below the Title V threshold level of 100 tons per year by federally enforceable limits on both the annual hours of operation and the annual fuel usage, as established in PTI 16-1366 for this emissions unit and the other two emissions units at this facility.

The permittee shall not cause or permit the carbon monoxide emissions from this emissions unit to

exceed 0.80 pound per million Btu of actual heat input.

Based on application data, the rated maximum heat input capacity of this emissions unit is 17.50 million Btu per hour. Therefore, maximum hourly emissions of carbon monoxide from this emissions unit shall not exceed 14.00 pounds per hour.

Facility-wide annual emissions of carbon monoxide are limited below the Title V threshold level of 100 tons per year by federally enforceable limits on both the annual hours of operation and the annual fuel usage, as established in PTI 16-1366 for this emissions unit and the other two emissions units at this facility.

The permittee shall not cause or permit the volatile organic compound (VOC) emissions from this emissions unit to exceed 0.30 pound per million Btu of actual heat input.

Based on application data, the rated maximum heat input capacity of this emissions unit is 17.50 million Btu per hour. Therefore, maximum hourly emissions of VOC from this emissions unit shall not exceed 5.25 pounds per hour.

Facility-wide annual emissions of VOC are limited below the Title V threshold level of 100 tons per year by federally enforceable limits on both the annual hours of operation and the annual fuel usage, as established in PTI 16-1366 for this emissions unit and the other two emissions units at this facility.

The permittee shall not cause or permit the nitrogen oxides emissions from this emissions unit to exceed 10.14 grams per horsepower-hour.

Based on company information, the rated power output of the internal combustion engine is 2568 horsepower (HP). Therefore, maximum hourly emissions of nitrogen oxides from this emissions unit shall not exceed 57.4 pounds per hour.

Facility-wide annual emissions of nitrogen oxides are limited below the Title V threshold level of 100 tons per year by federally enforceable limits on both the annual hours of operation and the annual fuel usage, as established in PTI 16-1366 for this emissions unit and the other two emissions units at this facility.

Visible particulate emissions shall not exceed 5% opacity as a 6-minute average, except for a 1-hour period during startup of the engine. Visible particulate emissions during this 1-hour period shall not exceed 20% opacity on a 6-minute average.

The emission limit based on this rule is less stringent than OAC rule 3745-31-05.

The following emission limitations are equal to or greater than the potential to emit for this emissions unit, as determined from the application:

PE: 0.062 lb/mmBtu of actual heat input and 1.09 lbs/hr;  
 SO<sub>2</sub>: 0.3 lb/mmBtu of actual heat input and 5.25 lbs/hr;  
 CO: 0.8 lb/mmBtu of actual heat input and 14.00 lbs/hr; and  
 VOC: 0.3 lb/mmBtu of actual heat input and 5.25 lbs/hr.

Therefore, no associated record keeping and reporting are required to demonstrate compliance with these emission limitations.

However, if any proposed change(s), such as production capacity, equipment modification, operational procedures, type and/or quality of fuel burned, or anything else, increase(s) the potential to emit for this emissions unit, then the permittee shall apply for and obtain either a modification to the permit to install or a new final permit to install prior to making the change(s).

**B. Operational Restrictions**

1. The maximum annual operating hours for this emissions unit shall not exceed 1161 hours, based upon a rolling, 12-month summation of the monthly operating hours.
2. The maximum annual diesel fuel usage for this emissions unit shall not exceed 144,777 gallons, based upon a rolling, 12-month summation of the monthly usage rates.
3. The permittee shall only burn low sulfur diesel fuel, containing less than 0.05% sulfur, by weight, in this emissions unit.
4. The engine of this emissions unit shall be equipped with a timer for recording operating hours.

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

1. The permittee shall maintain monthly records of the following information for this emissions unit:
  - a. the operating hours each calendar month;
  - b. the summation of the previous 12 calendar months of operating hours (i.e., the rolling, 12-month summation of the operating hours);
  - c. the gallons of fuel burned; and
  - d. the summation of the previous 12 calendar months of fuel burned (i.e., the rolling, 12-month summation of the fuel burned).
2. Periodic fuel sampling and analysis (at a minimum, annually) shall be done in accordance with 40 CFR, Part 60, "Appendix A", Method 19, or the appropriate ASTM methods, or equivalent methods as approved by the director of the Ohio EPA. In lieu of performing on-site sampling, representative fuel analyses performed by fuel suppliers may be acceptable. This procedure must be done at least on an annual basis. The representative sulfur dioxide emission rate from any sample shall be calculated using the formula in OAC Rule 3745-18-04 (F) (2) "Measurement Methods and Procedures". The results of these analyses must be maintained in the facility's files for a period of not less than five years.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month operating hours limitation.
2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month limitation on diesel fuel oil usage.
3. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition 3.
4. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than a fuel specified in 2.B.3 was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

[Authority for term: OAC rule 3745-77-07(C)(1)]

**E. Testing Requirements**

1. Compliance with the emission limitations in Section A.2 of these terms and conditions shall be determined in accordance with the following methods:  
Emission Limitation:  
  
0.062 pound of particulates per million Btu of actual heat input  
  
Applicable Compliance Method:  
  
Future stack testing may be required in accordance with the procedures and test method(s) specified in OAC rule 3745-17-03(B)(10).  
Emission Limitation:  
  
0.3 pound of sulfur dioxide per million Btu of actual heat input  
  
Applicable Compliance Method:  
  
OAC rule 3745-18-04(F)(2)  
Emission Limitation:  
  
0.80 pound of carbon monoxide per million Btu of actual heat input  
  
Applicable Compliance Method:  
  
Future stack testing may be required in accordance with the procedures of 40 CFR Part 60, Method 10 of Appendix A.  
Emission Limitation:  
  
0.30 pound of VOC per million Btu of actual heat input  
  
Applicable Compliance Method:  
  
Compliance is demonstrated by the emission factor of 0.09 pound of total organic compounds (TOC) per million Btu heat input as listed in AP-42 Table 3.4-1, 4th edition.  
Emission Limitation:  
  
10.14 grams of nitrogen oxides per horsepower-hour  
  
Applicable Compliance Method:  
  
Future stack testing may be required in accordance with the procedures of 40 CFR Part 60, Methods 7, 7A, or 7E of Appendix A.  
Emission Limitation:  
  
5% opacity as a 6-minute average  
20% opacity as a 6-minute average  
  
Applicable Compliance Method:  
  
OAC rule 3745-17-03(B)(1)

**F. Miscellaneous Requirements**

1. The permittee is hereby notified that this permit and all agency records concerning this permitted emissions unit are subject to public disclosure in accordance with OAC rule 3745-49-03.

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

**Facility ID: 1652100085 Emissions Unit ID: B002 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>
Caterpillar stationary large internal combustion (IC) diesel engine (rated output power of 2568 BHP model 3516A) driving an electrical generator (rated output power of 1800 KW)	OAC rule 3745-31-05(A)(3) (PTI 16-01366)	See A.2.a-f below.
	OAC rule 3745-31-05(C)	NOx emissions from the facility, which consists of three (3) identical diesel-powered electrical generator units, B001 through B003, shall not exceed 99.9 tons/year, based upon a rolling, 12-month summation of the monthly emissions, per the fuel usage, and operating hours restriction of Part II, Section B.1, and B.2 below. This is a synthetic minor potential to emit condition and shall be a federally enforceable requirement.
	OAC rule 3745-17-07(A) OAC rule 3745-17-11(B)(5)(b)	The emission limitations required by these applicable rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(G)	See A.2.g below.

**2. Additional Terms and Conditions**

- (a) The permittee shall not cause or permit the particulate emissions from the engine's exhaust to exceed 0.062 pound per million Btu of actual heat input.

Based on application data, the rated maximum heat input capacity of this emissions unit is 17.50 million Btu per hour. Therefore, maximum hourly emissions of particulates from this emissions unit shall not exceed 1.09 pound per hour.

Facility-wide annual emissions of particulate emissions are limited below the Title V threshold level of 100 tons per year by federally enforceable limits on both the annual hours of operation and the annual fuel usage, as established in permit-to-install (PTI) 16-1366 for this emissions unit and the other two emissions units at this facility.

The permittee shall not cause or permit the sulfur dioxide emissions from this emissions unit to exceed 0.3 pound per million Btu of actual heat input.

Based on application data, the rated maximum heat input capacity of this emissions unit is 17.5 million Btu per hour. Therefore, maximum hourly emissions of sulfur dioxide from this emissions unit shall not exceed 5.25 pounds per hour.

Facility-wide annual emissions of sulfur dioxide are limited below the Title V threshold level of 100 tons per year by federally enforceable limits on both the annual hours of operation and the annual fuel usage, as established in PTI 16-1366 for this emissions unit and the other two emissions units at this facility.

The permittee shall not cause or permit the carbon monoxide emissions from this emissions unit to exceed 0.80 pound per million Btu of actual heat input.

Based on application data, the rated maximum heat input capacity of this emissions unit is 17.50 million Btu per hour. Therefore, maximum hourly emissions of carbon monoxide from this emissions unit shall not exceed 14.00 pounds per hour.

Facility-wide annual emissions of carbon monoxide are limited below the Title V threshold level of 100 tons per year by federally enforceable limits on both the annual hours of operation and the annual fuel usage, as established in PTI 16-1366 for this emissions unit and the other two emissions units at this facility.

The permittee shall not cause or permit the volatile organic compound (VOC) emissions from this emissions unit to exceed 0.30 pound per million Btu of actual heat input.

Based on application data, the rated maximum heat input capacity of this emissions unit is 17.50 million Btu per hour. Therefore, maximum hourly emissions of VOC from this emissions unit shall not exceed 5.25 pounds per hour.

Facility-wide annual emissions of VOC are limited below the Title V threshold level of 100 tons per year by federally enforceable limits on both the annual hours of operation and the annual fuel usage, as established in PTI 16-1366 for this emissions unit and the other two emissions units at this facility.

The permittee shall not cause or permit the nitrogen oxides emissions from this emissions unit to

exceed 10.14 grams per horsepower-hour.

Based on company information, the rated power output of the internal combustion engine is 2568 horsepower (HP). Therefore, maximum hourly emissions of nitrogen oxides from this emissions unit shall not exceed 57.4 pounds per hour.

Facility-wide annual emissions of nitrogen oxides are limited below the Title V threshold level of 100 tons per year by federally enforceable limits on both the annual hours of operation and the annual fuel usage, as established in PTI 16-1366 for this emissions unit and the other two emissions units at this facility.

Visible particulate emissions shall not exceed 5% opacity as a 6-minute average, except for a 1-hour period during startup of the engine. Visible particulate emissions during this 1-hour period shall not exceed 20% opacity on a 6-minute average.

The emission limit based on this rule is less stringent than OAC rule 3745-31-05.

The following emission limitations are equal to or greater than the potential to emit for this emissions unit, as determined from the application:

PE: 0.062 lb/mmBtu of actual heat input and 1.09 lbs/hr;  
 SO<sub>2</sub>: 0.3 lb/mmBtu of actual heat input and 5.25 lbs/hr;  
 CO: 0.8 lb/mmBtu of actual heat input and 14.00 lbs/hr; and  
 VOC: 0.3 lb/mmBtu of actual heat input and 5.25 lbs/hr.

Therefore, no associated record keeping and reporting are required to demonstrate compliance with these emission limitations.

However, if any proposed change(s), such as production capacity, equipment modification, operational procedures, type and/or quality of fuel burned, or anything else, increase(s) the potential to emit for this emissions unit, then the permittee shall apply for and obtain either a modification to the permit to install or a new final permit to install prior to making the change(s).

**B. Operational Restrictions**

1. The maximum annual operating hours for this emissions unit shall not exceed 1161 hours, based upon a rolling, 12-month summation of the monthly operating hours.
2. The maximum annual diesel fuel usage for this emissions unit shall not exceed 144,777 gallons, based upon a rolling, 12-month summation of the monthly usage rates.
3. The permittee shall only burn low sulfur diesel fuel, containing less than 0.05% sulfur, by weight, in this emissions unit.
4. The engine of this emissions unit shall be equipped with a timer for recording operating hours.

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

1. The permittee shall maintain monthly records of the following information for this emissions unit:
  - a. the operating hours each calendar month;
  - b. the summation of the previous 12 calendar months of operating hours (i.e., the rolling, 12-month summation of the operating hours);
  - c. the gallons of fuel burned; and
  - d. the summation of the previous 12 calendar months of fuel burned (i.e., the rolling, 12-month summation of the fuel burned).
2. Periodic fuel sampling and analysis (at a minimum, annually) shall be done in accordance with 40 CFR, Part 60, "Appendix A", Method 19, or the appropriate ASTM methods, or equivalent methods as approved by the director of the Ohio EPA. In lieu of performing on-site sampling, representative fuel analyses performed by fuel suppliers may be acceptable. This procedure must be done at least on an annual basis. The representative sulfur dioxide emission rate from any sample shall be calculated using the formula in OAC Rule 3745-18-04 (F) (2) "Measurement Methods and Procedures". The results of these analyses must be maintained in the facility's files for a period of not less than five years.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month operating hours limitation.
2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month limitation on diesel fuel oil usage.
3. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition 3.
4. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than a fuel specified in 2.B.3 was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

[Authority for term: OAC rule 3745-77-07(C)(1)]

**E. Testing Requirements**

1. Compliance with the emission limitations in Section A.2 of these terms and conditions shall be determined in accordance with the following methods:  
 Emission Limitation:  
 0.062 pound of particulates per million Btu of actual heat input

Applicable Compliance Method:

Future stack testing may be required in accordance with the procedures and test method(s) specified in OAC rule 3745-17-03(B)(10).  
Emission Limitation:

0.3 pound of sulfur dioxide per million Btu of actual heat input

Applicable Compliance Method:

OAC rule 3745-18-04(F)(2)  
Emission Limitation:

0.80 pound of carbon monoxide per million Btu of actual heat input

Applicable Compliance Method:

Future stack testing may be required in accordance with the procedures of 40 CFR Part 60, Method 10 of Appendix A.  
Emission Limitation:

0.30 pound of VOC per million Btu of actual heat input

Applicable Compliance Method:

Compliance is demonstrated by the emission factor of 0.09 pound of total organic compounds (TOC) per million Btu heat input as listed in AP-42 Table 3.4-1, 4th edition.  
Emission Limitation:

10.14 grams of nitrogen oxides per horsepower-hour

Applicable Compliance Method:

Future stack testing may be required in accordance with the procedures of 40 CFR Part 60, Methods 7, 7A, or 7E of Appendix A.  
Emission Limitation:

5% opacity as a 6-minute average  
20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**F. Miscellaneous Requirements**

1. The permittee is hereby notified that this permit and all agency records concerning this permitted emissions unit are subject to public disclosure in accordance with OAC rule 3745-49-03.

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**Facility ID: 1652100085 Emissions Unit ID: B003 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>
Caterpillar stationary large internal combustion (IC) diesel engine (rated output power of 2568 BHP model 3516A) driving	OAC rule 3745-31-05(A)(3) (PTI 16-01366)	See A.2.a-f below.

an electrical generator (rated output power of 1800 KW)

OAC rule 3745-31-05(C)

NOx emissions from the facility, which consists of three (3) identical diesel-powered electrical generator units, B001 through B003, shall not exceed 99.9 tons/year, based upon a rolling, 12-month summation of the monthly emissions, per the fuel usage, and operating hours restriction of Part II, Section B.1, and B.2 below. This is a synthetic minor potential to emit condition and shall be a federally enforceable requirement.

OAC rule 3745-17-07(A)  
OAC rule 3745-17-11(B)(5)(b)

The emission limitations required by these applicable rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-18-06(G)

See A.2.g below.

**2. Additional Terms and Conditions**

- (a) The permittee shall not cause or permit the particulate emissions from the engine's exhaust to exceed 0.062 pound per million Btu of actual heat input.

Based on application data, the rated maximum heat input capacity of this emissions unit is 17.50 million Btu per hour. Therefore, maximum hourly emissions of particulates from this emissions unit shall not exceed 1.09 pound per hour.

Facility-wide annual emissions of particulate emissions are limited below the Title V threshold level of 100 tons per year by federally enforceable limits on both the annual hours of operation and the annual fuel usage, as established in permit-to-install (PTI) 16-1366 for this emissions unit and the other two emissions units at this facility.

The permittee shall not cause or permit the sulfur dioxide emissions from this emissions unit to exceed 0.3 pound per million Btu of actual heat input.

Based on application data, the rated maximum heat input capacity of this emissions unit is 17.5 million Btu per hour. Therefore, maximum hourly emissions of sulfur dioxide from this emissions unit shall not exceed 5.25 pounds per hour.

Facility-wide annual emissions of sulfur dioxide are limited below the Title V threshold level of 100 tons per year by federally enforceable limits on both the annual hours of operation and the annual fuel usage, as established in PTI 16-1366 for this emissions unit and the other two emissions units at this facility.

The permittee shall not cause or permit the carbon monoxide emissions from this emissions unit to exceed 0.80 pound per million Btu of actual heat input.

Based on application data, the rated maximum heat input capacity of this emissions unit is 17.50 million Btu per hour. Therefore, maximum hourly emissions of carbon monoxide from this emissions unit shall not exceed 14.00 pounds per hour.

Facility-wide annual emissions of carbon monoxide are limited below the Title V threshold level of 100 tons per year by federally enforceable limits on both the annual hours of operation and the annual fuel usage, as established in PTI 16-1366 for this emissions unit and the other two emissions units at this facility.

The permittee shall not cause or permit the volatile organic compound (VOC) emissions from this emissions unit to exceed 0.30 pound per million Btu of actual heat input.

Based on application data, the rated maximum heat input capacity of this emissions unit is 17.50 million Btu per hour. Therefore, maximum hourly emissions of VOC from this emissions unit shall not exceed 5.25 pounds per hour.

Facility-wide annual emissions of VOC are limited below the Title V threshold level of 100 tons per year by federally enforceable limits on both the annual hours of operation and the annual fuel usage, as established in PTI 16-1366 for this emissions unit and the other two emissions units at this facility.

The permittee shall not cause or permit the nitrogen oxides emissions from this emissions unit to exceed 10.14 grams per horsepower-hour.

Based on company information, the rated power output of the internal combustion engine is 2568 horsepower (HP). Therefore, maximum hourly emissions of nitrogen oxides from this emissions unit shall not exceed 57.4 pounds per hour.

Facility-wide annual emissions of nitrogen oxides are limited below the Title V threshold level of 100 tons per year by federally enforceable limits on both the annual hours of operation and the annual fuel usage, as established in PTI 16-1366 for this emissions unit and the other two emissions units at this facility.

Visible particulate emissions shall not exceed 5% opacity as a 6-minute average, except for a 1-hour period during startup of the engine. Visible particulate emissions during this 1-hour period shall not exceed 20% opacity on a 6-minute average.

The emission limit based on this rule is less stringent than OAC rule 3745-31-05.

The following emission limitations are equal to or greater than the potential to emit for this emissions unit, as determined from the application:

- PE: 0.062 lb/mmBtu of actual heat input and 1.09 lbs/hr;
- SO2: 0.3 lb/mmBtu of actual heat input and 5.25 lbs/hr;
- CO: 0.8 lb/mmBtu of actual heat input and 14.00 lbs/hr; and
- VOC: 0.3 lb/mmBtu of actual heat input and 5.25 lbs/hr.

Therefore, no associated record keeping and reporting are required to demonstrate compliance with these emission limitations.

However, if any proposed change(s), such as production capacity, equipment modification, operational procedures, type and/or quality of fuel burned, or anything else, increase(s) the potential to emit for this emissions unit, then the permittee shall apply for and obtain either a modification to the permit to install or a new final permit to install prior to making the change(s).

**B. Operational Restrictions**

1. The maximum annual operating hours for this emissions unit shall not exceed 1161 hours, based upon a rolling, 12-month summation of the monthly operating hours.
2. The maximum annual diesel fuel usage for this emissions unit shall not exceed 144,777 gallons, based upon a rolling, 12-month summation of the monthly usage rates.
3. The permittee shall only burn low sulfur diesel fuel, containing less than 0.05% sulfur, by weight, in this emissions unit.
4. The engine of this emissions unit shall be equipped with a timer for recording operating hours.

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

1. The permittee shall maintain monthly records of the following information for this emissions unit:
  - a. the operating hours each calendar month;
  - b. the summation of the previous 12 calendar months of operating hours (i.e., the rolling, 12-month summation of the operating hours);
  - c. the gallons of fuel burned; and
  - d. the summation of the previous 12 calendar months of fuel burned (i.e., the rolling, 12-month summation of the fuel burned).
2. Periodic fuel sampling and analysis (at a minimum, annually) shall be done in accordance with 40 CFR, Part 60, "Appendix A", Method 19, or the appropriate ASTM methods, or equivalent methods as approved by the director of the Ohio EPA. In lieu of performing on-site sampling, representative fuel analyses performed by fuel suppliers may be acceptable. This procedure must be done at least on an annual basis. The representative sulfur dioxide emission rate from any sample shall be calculated using the formula in OAC Rule 3745-18-04 (F) (2) "Measurement Methods and Procedures". The results of these analyses must be maintained in the facility's files for a period of not less than five years.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month operating hours limitation.
2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month limitation on diesel fuel oil usage.
3. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition 3.
4. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than a fuel specified in 2.B.3 was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

[Authority for term: OAC rule 3745-77-07(C)(1)]

**E. Testing Requirements**

1. Compliance with the emission limitations in Section A.2 of these terms and conditions shall be determined in accordance with the following methods:  
Emission Limitation:  
  
0.062 pound of particulates per million Btu of actual heat input  
  
Applicable Compliance Method:  
  
Future stack testing may be required in accordance with the procedures and test method(s) specified in OAC rule 3745-17-03(B)(10).  
Emission Limitation:  
  
0.3 pound of sulfur dioxide per million Btu of actual heat input  
  
Applicable Compliance Method:  
  
OAC rule 3745-18-04(F)(2)  
Emission Limitation:  
  
0.80 pound of carbon monoxide per million Btu of actual heat input  
  
Applicable Compliance Method:  
  
Future stack testing may be required in accordance with the procedures of 40 CFR Part 60, Method 10 of Appendix A.  
Emission Limitation:  
  
0.30 pound of VOC per million Btu of actual heat input

## Applicable Compliance Method:

Compliance is demonstrated by the emission factor of 0.09 pound of total organic compounds (TOC) per million Btu heat input as listed in AP-42 Table 3.4-1, 4th edition.

## Emission Limitation:

10.14 grams of nitrogen oxides per horsepower-hour

## Applicable Compliance Method:

Future stack testing may be required in accordance with the procedures of 40 CFR Part 60, Methods 7, 7A, or 7E of Appendix A.

## Emission Limitation:

5% opacity as a 6-minute average  
20% opacity as a 6-minute average

## Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**F. Miscellaneous Requirements**

1. The permittee is hereby notified that this permit and all agency records concerning this permitted emissions unit are subject to public disclosure in accordance with OAC rule 3745-49-03.