

Facility ID: 0278030771 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](#)

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

Facility ID: 0278030771 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>
B001-diesel fuel fired generator Caterpillar Model 3516B, 2628 BHP (19.8 mmBTU/hr)	OAC rule 3745-31-05(A)(3) (PTI No. 02-15981)	Particulate emissions (PE) shall not exceed 0.72 pound per hour and 0.43 ton/year. Sulfur dioxide (SO2) emissions shall not exceed 1.5 pounds per hour and 0.9 ton/year. Nitrogen oxides (NOx) emissions shall not exceed 47.69 pounds per hour and 28.61 tons/year. Carbon monoxide (CO) emissions shall not exceed 3.67 pounds per hour and 2.2 tons/year. Organic compound (OC) emissions shall not exceed 1.06 pounds per hour and 0.64 ton/year.
	OAC rule 3745-35-07(D)	Annual NOx emissions for facility--See section A.2.a. below
	OAC rule 3745-17-07(A)(1)	Visible PE from the exhaust stack or egress points serving this emissions unit shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11(B)(5)(b)	The emission limitations specified by this rule are less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(G)	The emission limitations specified by this rule are less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- (a) The total annual emissions of NOx from all emissions units at this facility (B001, B002, and B003) shall be limited to 85.83 tons, as a rolling 12-month summation. This annual facility NOx emission limitation shall be achieved by restricting the maximum quantity of diesel fuel burned.

B. Operational Restrictions

1. The permittee shall burn only diesel fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall meet, on an "as received" basis, a sulfur content which is sufficient to comply with the allowable sulfur dioxide emissions limitation of 1.5 pounds SO2/ hour and 0.05% sulfur or less.

3. The maximum quantity of diesel fuel which may be burned in each of these emissions units (B001, B002, and B003) shall not exceed 170,640 gallons per year based on a rolling 12-month summation of fuel usage.
4. To ensure enforceability during the first twelve (12) months of operation following startup of these emissions units (B001, B002, & B003), the permittee shall not exceed the diesel fuel usage per unit limitations specified in the following table:

CALENDAR MONTH(S) ALLOWABLE FOLLOWING STARTUP	CUMULATIVE TOTAL GALLONS OF FUEL BURNED
1	42,660
1-2	42,660
1-3	42,660
1-4	56,880
1-5	71,100
1-6	85,320
1-7	99,540
1-8	113,760
1-9	127,980
1-10	142,200
1-11	156,420
1-12	170,640

After the first 12 calendar months of operation following startup of each of these emissions units (B001, B002, & B003), compliance with the annual diesel fuel usage limitation shall be based on a rolling, 12-month summation of the fuel usage.

C. Monitoring and/or Record Keeping Requirements

1. 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.
2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content (lbs/mmBtu) and heat content (Btu/gallon) in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Ohio EPA Northeast District Office.
3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content.
4. The permittee shall maintain monthly records of the following information:
 - a. the total volume (in gallons) of low sulfur No. 2 diesel fuel burned in each of these emissions units (B001, B002, & B003); and
 - b. the total hours of operation of each emissions unit (B001, B002, & B003).
5. The permittee shall maintain monthly records of the following information:
 - a. during the first 12 calendar months of operation following startup, the permittee shall record the diesel fuel usage in each emissions unit, B001, B002, and B003, for each calendar month; and
 - b. beginning after the first 12 calendar months of operation following startup of this emissions unit, the rolling, 12-month summation of diesel fuel usage in each emissions unit, B001, B002, and B003.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than diesel fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit quarterly deviation (excursion) reports that identify any record showing an exceedance of 0.05% sulfur. The notification shall include a copy of any such record and shall be sent to the Ohio EPA, Northeast District Office as required in Part I, Section A.2.b of the General Terms and Conditions of this permit.
3. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month fuel usage limitation for each emissions unit, B001, B002, and B003, and for the first 12 calendar months of operation, following startup of this emissions unit, all exceedances of the maximum allowable diesel fuel usage (per Table in Section B.4). These reports shall be sent to the Ohio EPA, Northeast District Office as required in Part I, Section 3.b of the General Terms and Conditions of this permit.
4. The permittee shall submit an annual report which summarizes the following information:
 - a. the monthly and annual volume (in gallons) of diesel fuel burned in each emissions unit (B001, B002, & B003);
 - b. the total monthly and annual hours of operation of each emissions unit (B001, B002, & B003); and
 - c. the total annual emissions of NO_x, CO, PM, SO₂, and total organic compounds from all emissions units (B001, B002, & B003) collectively for the previous calendar year.

This reports shall be submitted by January 31 of each year for operations during the previous calendar year.

E. Testing Requirements

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

Emissions Limitation

PE shall no exceed 0.72 pound per hour and 0.43 ton per year.

Applicable Compliance Method:

Compliance shall be based upon the use of an emission factor supplied by the manufacturer (0.124 grams of PE per hp-hr) multiplied by the maximum rating of this emissions unit (2628 HP) multiplied by 1 lb/453.6 grams.

Tons per year shall be calculated by multiplying pounds per hour by the hours of operation per year, and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly particulate emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 5, and in OAC 3745-17-03(B).
Emissions Limitation:

SO2 emissions shall no exceed 1.5 pounds per hour and 0.9 ton per year.

Applicable Compliance Method:

Compliance with the SO2 limit shall be based on the analytical test results of each shipment of oil, and shall be demonstrated with each shipment that meets a sulfur content of 0.05% sulfur or less. (Per AP-42, Sec.1.3, Table 1.3-1, SO2 emission factor = 157(S) lbs/1000gals, an input capacity of 19.5 mmBtu/hr which equates to 140 gals of diesel fuel per hour, therefore, 157(0.05)lbs SO2/1000 gals x 140 gals/hr = 1.1 lbs SO2/hr).

Tons per year shall be calculated by multiplying pounds per hour by the hours of operation per year, and dividing by 2000 lbs/ton.

Emissions Limitation:

NOx emissions shall no exceed 47.69 pounds per hour and 28.61 tons per year.

Applicable Compliance Method:

Compliance shall be based upon the use of an emission factor supplied by the manufacturer (8.23 grams of NOx per hp-hr) multiplied by the maximum rating of this emissions unit (2628 HP) multiplied by 1 lb/453.6 grams.

Tons per year shall be calculated by multiplying pounds per hour by the hours of operation per year, and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly NOx emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 7 or 7E.
Emissions Limitation:

CO emissions shall no exceed 3.67 pounds per hour and 2.2 tons per year.

Applicable Compliance Method:

Compliance shall be based upon the use of an emission factor supplied by the manufacturer (0.63 grams of CO per hp-hr) multiplied by the maximum rating of this emissions unit (2628 HP) multiplied by 1 lb/ 453.6 grams.

Tons per year shall be calculated by multiplying pounds per hour by the hours of operation per year, and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly CO emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 10.
Emissions Limitation:

OC emissions shall no exceed 1.06 pounds per hour and 0.64 ton per year.

Applicable Compliance Method:

Compliance shall be based upon the use of an emission factor supplied by the manufacturer (0.18 grams of OC per hp-hr) multiplied by the maximum rating of this emissions unit (2628 HP) multiplied by 1 lb/ 453.6 grams.

Tons per year shall be calculated by multiplying pounds per hour by the hours of operation per year, and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly OC emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 25 or 25A.
Emission Limitation:

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

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance

with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - If within the first 12-months following the issuance of this permit, this emissions unit exceeds 500 hours of operation, emission testing shall be conducted within 3 months of reaching the 500 hours of operation; or if within any rolling, 12-month summation of the operating hours, this emissions unit exceeds 500 hours of operation, emission testing shall be conducted within 3 months of reaching the 500 hours of operation.
 - The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for nitrogen oxides and carbon monoxide .
 - The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for nitrogen oxides, Method 7 or 7E of 40 CFR Part 60, Appendix A and for carbon monoxide, Method 10 of 40 CFR Part 60, Appendix A.
 - The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Northeast District Office.
 - Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northeast District Offices refusal to accept the results of the emission test(s).
 - Personnel from the Ohio EPA Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
 - A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA Northeast District Office.

F. Miscellaneous Requirements

1. The following Terms and Conditions have been incorporated into this permit in order to establish federally enforceable limitations on potential to emit, pursuant to OAC Rule 3745-35- 07: Sections A., B., C., D., and E.

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Facility ID: 0278030771 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>
B002-diesel fuel fired generator Caterpillar Model 3516B, 2628 BHP (19.8 mmBTU/hr)	OAC rule 3745-31-05(A)(3) (PTI No. 02-15981)	Particulate emissions (PE) shall not exceed 0.72 pound per hour and 0.43 ton/year. Sulfur dioxide (SO2) emissions shall not exceed 1.5 pounds per hour and 0.9 ton/year. Nitrogen oxides (NOx) emissions shall not exceed 47.69 pounds per hour and 28.61 tons/year. Carbon monoxide (CO) emissions shall not exceed 3.67 pounds per hour and 2.2 tons/year. Organic compound (OC) emissions shall not exceed 1.06 pounds per hour and 0.64 ton/year.
The requirements of this rule also include compliance		

	with the requirements of OAC rules 3745-35-07(D) and 3745-17-07(A)(3)
OAC rule 3745-35-07(D)	Annual NOx emissions for facility--See section A.2.a. below
OAC rule 3745-17-07(A)(1)	Visible PE from the exhaust stack or egress points serving this emissions unit shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
OAC rule 3745-17-11(B)(5)(b)	The emission limitations specified by this rule are less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-18-06(G)	The emission limitations specified by this rule are less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- (a) The total annual emissions of NOx from all emissions units at this facility (B001, B002, and B003) shall be limited to 85.83 tons, as a rolling 12-month summation. This annual facility NOx emission limitation shall be achieved by restricting the maximum quantity of diesel fuel burned.

B. Operational Restrictions

1. The permittee shall burn only diesel fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall meet, on an "as received" basis, a sulfur content which is sufficient to comply with the allowable sulfur dioxide emissions limitation of 1.5 pounds SO2/ hour and 0.05% sulfur or less.
3. The maximum quantity of diesel fuel which may be burned in each of these emissions units (B001, B002, and B003) shall not exceed 170,640 gallons per year based on a rolling 12-month summation of fuel usage.
4. To ensure enforceability during the first twelve (12) months of operation following startup of these emissions units (B001, B002, & B003), the permittee shall not exceed the diesel fuel usage per unit limitations specified in the following table:

CALENDAR MONTH(S) ALLOWABLE FOLLOWING STARTUP	CUMULATIVE TOTAL GALLONS OF FUEL BURNED
1	42,660
1-2	42,660
1-3	42,660
1-4	56,880
1-5	71,100
1-6	85,320
1-7	99,540
1-8	113,760
1-9	127,980
1-10	142,200
1-11	156,420
1-12	170,640

After the first 12 calendar months of operation following startup of each of these emissions units (B001, B002, & B003), compliance with the annual diesel fuel usage limitation shall be based on a rolling, 12-month summation of the fuel usage.

C. Monitoring and/or Record Keeping Requirements

1. 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.
2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content (lbs/mmBtu) and heat content (Btu/gallon) in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Ohio EPA Northeast District Office.
3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content.
4. The permittee shall maintain monthly records of the following information:
 - a. the total volume (in gallons) of low sulfur No. 2 diesel fuel burned in each of these emissions units (B001, B002, & B003); and
 - b. the total hours of operation of each emissions unit (B001, B002, & B003).
5. The permittee shall maintain monthly records of the following information:
 - a. during the first 12 calendar months of operation following startup, the permittee shall record the diesel fuel usage in each emissions unit, B001, B002, and B003, for each calendar month; and
 - b. beginning after the first 12 calendar months of operation following startup of this emissions unit, the rolling, 12-month summation of diesel fuel usage in each emissions unit, B001, B002, and B003.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than diesel fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit quarterly deviation (excursion) reports that identify any record showing an exceedance of 0.05% sulfur. The notification shall include a copy of any such record and shall be sent to the Ohio EPA, Northeast District Office as required in Part I, Section A.2.b of the General Terms and Conditions of this permit.
3. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month fuel usage limitation for each emissions unit, B001, B002, and B003, and for the first 12 calendar months of operation, following startup of this emissions unit, all exceedances of the maximum allowable diesel fuel usage (per Table in Section B.4). These reports shall be sent to the Ohio EPA, Northeast District Office as required in Part I, Section 3.b of the General Terms and Conditions of this permit.
4. The permittee shall submit an annual report which summarizes the following information:
 - a. the monthly and annual volume (in gallons) of diesel fuel burned in each emissions unit (B001, B002, & B003);
 - b. the total monthly and annual hours of operation of each emissions unit (B001, B002, & B003); and
 - c. the total annual emissions of NOx, CO, PM, SO2, and total organic compounds from all emissions units (B001, B002, & B003) collectively for the previous calendar year.

This reports shall be submitted by January 31 of each year for operations during the previous calendar year.

E. Testing Requirements

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

PE shall no exceed 0.72 pound per hour and 0.43 ton per year.

Applicable Compliance Method:

Compliance shall be based upon the use of an emission factor supplied by the manufacturer (0.124 grams of PE per hp-hr) multiplied by the maximum rating of this emissions unit (2628 HP) multiplied by 1 lb/453.6 grams.

Tons per year shall be calculated by multiplying pounds per hour by the hours of operation per year, and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly particulate emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 5, and in OAC 3745-17-03(B).

Emissions Limitation:

SO2 emissions shall no exceed 1.5 pounds per hour and 0.9 ton per year.

Applicable Compliance Method:

Compliance with the SO2 limit shall be based on the analytical test results of each shipment of oil, and shall be demonstrated with each shipment that meets a sulfur content of 0.05% sulfur or less. (Per AP-42, Sec.1.3, Table 1.3-1, SO2 emission factor = 157(S) lbs/1000gals, an input capacity of 19.5 mmBtu/hr which equates to 140 gals of diesel fuel per hour, therefore, 157(0.05)lbs SO2/1000 gals x 140 gals/hr = 1.1 lbs SO2/hr).

Tons per year shall be calculated by multiplying pounds per hour by the hours of operation per year, and dividing by 2000 lbs/ton.

Emissions Limitation:

NOx emissions shall no exceed 47.69 pounds per hour and 28.61 tons per year.

Applicable Compliance Method:

Compliance shall be based upon the use of an emission factor supplied by the manufacturer (8.23 grams of NOx per hp-hr) multiplied by the maximum rating of this emissions unit (2628 HP) multiplied by 1 lb/453.6 grams.

Tons per year shall be calculated by multiplying pounds per hour by the hours of operation per year, and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly NOx emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 7 or 7E.

Emissions Limitation:

CO emissions shall no exceed 3.67 pounds per hour and 2.2 tons per year.

Applicable Compliance Method:

Compliance shall be based upon the use of an emission factor supplied by the manufacturer (0.63 grams of CO per hp-hr) multiplied by the maximum rating of this emissions unit (2628 HP) multiplied by 1 lb/ 453.6 grams.

Tons per year shall be calculated by multiplying pounds per hour by the hours of operation per year, and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly CO emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 10.
Emissions Limitation:

OC emissions shall not exceed 1.06 pounds per hour and 0.64 ton per year.

Applicable Compliance Method:

Compliance shall be based upon the use of an emission factor supplied by the manufacturer (0.18 grams of OC per hp-hr) multiplied by the maximum rating of this emissions unit (2628 HP) multiplied by 1 lb/ 453.6 grams.

Tons per year shall be calculated by multiplying pounds per hour by the hours of operation per year, and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly OC emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 25 or 25A.
Emission Limitation:

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

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
If within the first 12-months following the issuance of this permit, this emissions unit exceeds 500 hours of operation, emission testing shall be conducted within 3 months of reaching the 500 hours of operation; or if within any rolling, 12-month summation of the operating hours, this emissions unit exceeds 500 hours of operation, emission testing shall be conducted within 3 months of reaching the 500 hours of operation.
The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for nitrogen oxides and carbon monoxide .
The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for nitrogen oxides, Method 7 or 7E of 40 CFR Part 60, Appendix A and for carbon monoxide, Method 10 of 40 CFR Part 60, Appendix A.
The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Northeast District Office.
Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northeast District Offices refusal to accept the results of the emission test(s).
Personnel from the Ohio EPA Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA Northeast District Office.

F. Miscellaneous Requirements

1. The following Terms and Conditions have been incorporated into this permit in order to establish federally enforceable limitations on potential to emit, pursuant to OAC Rule 3745-35- 07: Sections A., B., C., D., and E.

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Facility ID: 0278030771 Emissions Unit ID: B003 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

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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>
B003-diesel fuel fired generator Caterpillar Model 3516B, 2628 BHP (19.8 mmBTU/hr)	OAC rule 3745-31-05(A)(3) (PTI No. 02-15981)	Particulate emissions (PE) shall not exceed 0.72 pound per hour and 0.43 ton/year. Sulfur dioxide (SO ₂) emissions shall not exceed 1.5 pounds per hour and 0.9 ton/year. Nitrogen oxides (NO _x) emissions shall not exceed 47.69 pounds per hour and 28.61 tons/year. Carbon monoxide (CO) emissions shall not exceed 3.67 pounds per hour and 2.2 tons/year. Organic compound (OC) emissions shall not exceed 1.06 pounds per hour and 0.64 ton/year.
	OAC rule 3745-35-07(D)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-35-07(D) and 3745-17-07(A)(3) Annual NO _x emissions for facility--See section A.2.a. below
	OAC rule 3745-17-07(A)(1)	Visible PE from the exhaust stack or egress points serving this emissions unit shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11(B)(5)(b)	The emission limitations specified by this rule are less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(G)	The emission limitations specified by this rule are less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- (a) The total annual emissions of NO_x from all emissions units at this facility (B001, B002, and B003) shall be limited to 85.83 tons, as a rolling 12-month summation. This annual facility NO_x emission limitation shall be achieved by restricting the maximum quantity of diesel fuel burned.

B. Operational Restrictions

1. The permittee shall burn only diesel fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall meet, on an "as received" basis, a sulfur content which is sufficient to comply with the allowable sulfur dioxide emissions limitation of 1.5 pounds SO₂/ hour and 0.05% sulfur or less.
3. The maximum quantity of diesel fuel which may be burned in each of these emissions units (B001, B002, and B003) shall not exceed 170,640 gallons per year based on a rolling 12-month summation of fuel usage.
4. To ensure enforceability during the first twelve (12) months of operation following startup of these emissions units (B001, B002, & B003), the permittee shall not exceed the diesel fuel usage per unit limitations specified in the following table:

CALENDAR MONTH(S) ALLOWABLE
FOLLOWING STARTUP CUMULATIVE TOTAL
GALLONS OF FUEL BURNED

1 42,660
1-2 42,660
1-3 42,660
1-4 56,880
1-5 71,100
1-6 85,320
1-7 99,540
1-8 113,760
1-9 127,980
1-10 142,200
1-11 156,420
1-12 170,640

After the first 12 calendar months of operation following startup of each of these emissions units (B001, B002, & B003), compliance with the annual diesel fuel usage limitation shall be based on a rolling, 12-month summation of the fuel usage.

C. Monitoring and/or Record Keeping Requirements

1. 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.
2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content (lbs/mmBtu) and heat content (Btu/gallon) in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Ohio EPA Northeast District Office.
3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content.
4. The permittee shall maintain monthly records of the following information:
 - a. the total volume (in gallons) of low sulfur No. 2 diesel fuel burned in each of these emissions units (B001, B002, & B003); and
 - b. the total hours of operation of each emissions unit (B001, B002, & B003).
5. The permittee shall maintain monthly records of the following information:
 - a. during the first 12 calendar months of operation following startup, the permittee shall record the diesel fuel usage in each emissions unit, B001, B002, and B003, for each calendar month; and
 - b. beginning after the first 12 calendar months of operation following startup of this emissions unit, the rolling, 12-month summation of diesel fuel usage in each emissions unit, B001, B002, and B003.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than diesel fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit quarterly deviation (excursion) reports that identify any record showing an exceedance of 0.05% sulfur. The notification shall include a copy of any such record and shall be sent to the Ohio EPA, Northeast District Office as required in Part I, Section A.2.b of the General Terms and Conditions of this permit.
3. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month fuel usage limitation for each emissions unit, B001, B002, and B003, and for the first 12 calendar months of operation, following startup of this emissions unit, all exceedances of the maximum allowable diesel fuel usage (per Table in Section B.4). These reports shall be sent to the Ohio EPA, Northeast District Office as required in Part I, Section 3.b of the General Terms and Conditions of this permit.
4. The permittee shall submit an annual report which summarizes the following information:
 - a. the monthly and annual volume (in gallons) of diesel fuel burned in each emissions unit (B001, B002, & B003);
 - b. the total monthly and annual hours of operation of each emissions unit (B001, B002, & B003); and
 - c. the total annual emissions of NO_x, CO, PM, SO₂, and total organic compounds from all emissions units (B001, B002, & B003) collectively for the previous calendar year.

This reports shall be submitted by January 31 of each year for operations during the previous calendar year.

E. Testing Requirements

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

PE shall no exceed 0.72 pound per hour and 0.43 ton per year.

Applicable Compliance Method:

Compliance shall be based upon the use of an emission factor supplied by the manufacturer (0.124 grams of PE per hp-hr) multiplied by the maximum rating of this emissions unit (2628 HP) multiplied by 1 lb/453.6 grams.

Tons per year shall be calculated by multiplying pounds per hour by the hours of operation per year, and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly particulate emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 5, and in OAC 3745-17-03(B).
Emissions Limitation:

SO₂ emissions shall no exceed 1.5 pounds per hour and 0.9 ton per year.

Applicable Compliance Method:

Compliance with the SO₂ limit shall be based on the analytical test results of each shipment of oil, and shall be demonstrated with each shipment that meets a sulfur content of 0.05% sulfur or less. (Per AP-42, Sec.1.3, Table 1.3-1, SO₂ emission factor = 157(S) lbs/1000gals, an input capacity of 19.5 mmBtu/hr which equates to 140 gals of diesel fuel per hour, therefore, 157(0.05)lbs SO₂/1000 gals x 140 gals/hr = 1.1 lbs SO₂/hr).

Tons per year shall be calculated by multiplying pounds per hour by the hours of operation per year, and dividing by 2000 lbs/ton.

Emissions Limitation:

NOx emissions shall not exceed 47.69 pounds per hour and 28.61 tons per year.

Applicable Compliance Method:

Compliance shall be based upon the use of an emission factor supplied by the manufacturer (8.23 grams of NOx per hp-hr) multiplied by the maximum rating of this emissions unit (2628 HP) multiplied by 1 lb/453.6 grams.

Tons per year shall be calculated by multiplying pounds per hour by the hours of operation per year, and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly NOx emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 7 or 7E.

Emissions Limitation:

CO emissions shall not exceed 3.67 pounds per hour and 2.2 tons per year.

Applicable Compliance Method:

Compliance shall be based upon the use of an emission factor supplied by the manufacturer (0.63 grams of CO per hp-hr) multiplied by the maximum rating of this emissions unit (2628 HP) multiplied by 1 lb/453.6 grams.

Tons per year shall be calculated by multiplying pounds per hour by the hours of operation per year, and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly CO emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 10.

Emissions Limitation:

OC emissions shall not exceed 1.06 pounds per hour and 0.64 ton per year.

Applicable Compliance Method:

Compliance shall be based upon the use of an emission factor supplied by the manufacturer (0.18 grams of OC per hp-hr) multiplied by the maximum rating of this emissions unit (2628 HP) multiplied by 1 lb/453.6 grams.

Tons per year shall be calculated by multiplying pounds per hour by the hours of operation per year, and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly OC emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 25 or 25A.

Emission Limitation:

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

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

If within the first 12-months following the issuance of this permit, this emissions unit exceeds 500 hours of operation, emission testing shall be conducted within 3 months of reaching the 500 hours of operation; or if within any rolling, 12-month summation of the operating hours, this emissions unit exceeds 500 hours of operation, emission testing shall be conducted within 3 months of reaching the 500 hours of operation.

The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for nitrogen oxides and carbon monoxide.

The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for nitrogen oxides, Method 7 or 7E of 40 CFR Part 60, Appendix A and for carbon monoxide, Method 10 of 40 CFR Part 60, Appendix A.

The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Northeast District Office.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northeast District Offices refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA Northeast District Office.

F. Miscellaneous Requirements

1. The following Terms and Conditions have been incorporated into this permit in order to establish federally enforceable limitations on potential to emit, pursuant to OAC Rule 3745-35-07: Sections A., B., C., D., and E.