

Facility ID: 0285010399 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: 0285010399 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 Model 3516B, 2628 HP (17.53 mmBtu/hr), 1825 KW, diesel fueled engine/electric generator unit (B001).	OAC rule 3745-31-05(A)(3) OEPA PTI #02-2807	a. NOx emissions from this emissions unit shall not exceed 47.69 lbs/hr and 28.61 TPY.
		b. CO emissions from this emissions unit shall not exceed 3.67lbs/hr and 2.20 TPY.
		c. Total organic compound (TOC) emissions from this emissions unit shall not exceed 1.06 lb/hr and 0.64 TPY.
		d. Particulate emissions from this emissions unit shall not exceed 0.062 lb/mmBtu of actual heat input, 1.09 lbs/hr and 0.65 TPY.
		e. Sulfur dioxide emissions from this emissions unit shall not exceed 0.050 lb/mmBtu actual heat input, 0.88 lb/hr and 0.53 TPY.
	OAC rule 3745-17-07	Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed twenty (20) percent opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(5)(a)	Less stringent than OAC rule 3745-31-05 particulate limit above.
	OAC rule 3745-18-06(G)	Less stringent than OAC rule 3745-31-05 SO2 limit above.
	Synthetic Minor to avoid Title V and PSD requirements	154,080 gals/yr fuel usage as a rolling 12-month summation.
		For all emissions units, B001, B002, and B003, 85.83 TPY nitrogen oxides, as a rolling, 12-month summation.

2. Additional Terms and Conditions

- (a) The total annual emissions of NOx from all emissions units at this facility shall be limited to 85.83 tons, as a rolling 12-month summation. This annual facility NOx emission limitation shall be achieved by restricting both the maximum quantity of diesel fuel burned and the maximum annual hours of operation for these emissions units in the following manner:
 - i. The maximum annual hours of operation for each of the three diesel engine/generator units shall not exceed 1200 on a rolling 12-month summation basis.
 - ii. The maximum annual quantity of diesel fuel burned in each of the three diesel engine/generator units

shall be restricted to 154,080 gallons on a rolling 12-month summation basis.

B. Operational Restrictions

1. 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 0.050 pound SO₂/mmBtu of actual heat output.
2. The operation of each of these emissions units (i.e., the firing of each of these engines with diesel fuel accompanied by the generation of electricity) shall be limited to no more than 1200 hours per year, based on a rolling, 12-month summation of operating hours.
3. The maximum quantity of diesel fuel which may be burned in each of these emissions units shall not exceed 154,080 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 the startup of these emissions units, the permittee shall not exceed the diesel fuel usage and operating hours limitations specified in the following table:

CALENDAR MONTH(S) FOLLOWING STARTUP	ALLOWABLE GALLONS OF FUEL BURNED	ALLOWABLE HOURS OF OPERATION
1	64,200	500
1-2	102,720	800
1-3	115,560	900
1-4	121,980	950
1-5	128,400	1000
1-6	134,820	1050
1-7	138,030	1075
1-8	141,240	1100
1-9	144,450	1125
1-10	147,660	1150
1-11	150,870	1175
1-12	154,080	1200

After the first 12 calendar months of operation following the startup of these emissions units, compliance with the annual diesel fuel usage and operating hours limitations shall be based on rolling, 12-month summations of the operating hours and fuel usage.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information:
 - a. the total volume (in gallons) and the sulfur content of the low sulfur No. 2 diesel fuel burned in each of these emissions units; and
 - b. the total hours of operation of each emissions unit.
2. The permittee shall maintain monthly records of the following information:
 - a. Beginning after the first 12 calendar months of operation following startup of this emissions unit, the rolling, 12-month summation of the operating hours.
 - b. Also, during the first 12 calendar months of operation following startup, the cumulative operating hours for each calendar month.
 - c. Beginning after the first 12 calendar months of operation following startup of this emissions unit, the rolling, 12-month summation of diesel fuel usage.
 - d. Also, during the first 12 calendar months of operation following startup, the cumulative diesel fuel usage for each calendar month.
3. The permittee shall calculate and record, on a monthly basis, the total emissions of NO_x, CO, SO₂, particulates, and total organic compound emissions for all emissions units utilizing the methods of calculation specified in section E of these terms and conditions.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of both the rolling, 12-month fuel usage limitation and the rolling, 12-month operating hours restriction and, for the first 12 calendar months of operation following startup of this emissions unit, all exceedances of the maximum allowable cumulative diesel fuel usage and cumulative operating hours limitations. These reports are due by the dates described in Part I - General Terms and Conditions of this permit under section (A)(1).
2. The permittee shall submit annual reports that summarize the following information:
 - a. the monthly and annual volume (in gallons) and the sulfur content of the low sulfur diesel fuel burned in each emissions unit;
 - b. the total monthly and annual hours of operation of each emissions unit; and
 - c. the total annual emissions of NO_x, CO, particulates, SO₂, and total organic compounds from all emissions units for the previous calendar year.

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

E. Testing Requirements

1. Emissions Limitation: NOx emissions from each emissions unit shall not exceed 47.69 lbs/hr and 28.61 TPY; NOx emissions from this facility shall not exceed 85.83 TPY.

Applicable Compliance Method: Compliance shall be based on calculations using the rated horsepower of each emissions unit, the hours of operation recorded above, and the manufacturer's emissions factor specified below with the following equation:

$$ER(\text{HOURLY}) = HP \times Ef \times 1/453.6, \text{ and}$$

$$ER(\text{ANNUAL}) = HP \times Ef \times 1/453.6 \times A \times 1/2000.$$

Where:

HP = Rated horsepower of each engine,

Ef = Emissions factor for engine in grams/horsepower-hour (8.23 grams/HP-HR),

A = Annual hours of engine operation.

Annual emissions for the facility shall simply be the sum of the annual emissions for each engine. If required pursuant to OAC rule 3745-15-04, the permittee shall demonstrate compliance with the NOx emissions limits 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.

2. Emissions Limitation: Carbon monoxide emissions from each emissions unit shall not exceed 3.67 lbs/hr and 2.20 TPY.

Applicable Compliance Method: Compliance shall be based on calculations utilizing emissions factors supplied by the manufacturer, the maximum rated horsepower (or heat rate) for each engine, and the hours of operation of this emissions unit as recorded above. If required pursuant to OAC rule 3745-15-04, the permittee shall demonstrate compliance with the CO emissions limits 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.

3. Emissions Limitation: Total organic compound emissions from each emissions unit shall not exceed 1.06 lbs/hr and 0.64 TPY.

Applicable Compliance Method: Compliance shall be based on calculations utilizing emissions factors specified by the manufacturer, the maximum rated horsepower (or heat rate) for each engine, and the hours of operation of this emissions unit as recorded above.

4. Emissions Limitation: Particulate emissions from each emissions unit shall not exceed 0.062 lb/mmBtu of actual heat input, 1.09 lbs/hr, and 0.65 TPY.

Applicable Compliance Method: Compliance shall be based on calculations utilizing emissions factors specified by the manufacturer, the maximum rated horsepower (or heat rate) for each engine, and the hours of operation of this emissions unit as recorded above. If required pursuant to OAC rule 3745-15-04, the permittee shall demonstrate compliance with the particulate emissions limits 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 OAC rule 3745-17-03(B)(7).

5. Emissions Limitation: Sulfur dioxide emissions from each emissions unit shall not exceed 0.050 lb/mmBtu of actual heat input, 0.88 lbs/hr, and 0.53 TPY.

Applicable Compliance Method: Compliance shall be based on calculations utilizing emission factors specified in USEPA's document AP-42, 5th Edition, "Compilation of Air Pollution Emission Factors," Section 3.4, Table 3.4-1(10/96), the maximum rated horsepower (or heat rate) for each engine, and the hours of operation of this emissions unit as recorded above. If required pursuant to OAC rule 3745-15-04, the permittee shall demonstrate compliance with the sulfur dioxide emissions limits 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 6, and in OAC rule 3745-18-04.

6. Emissions Limitation: Visible particulate emissions from the exhaust stack serving each emissions unit shall not exceed twenty (20) percent opacity, as a six-minute average, except for a period of not more than six (6) consecutive minutes in any sixty-minute period.

Applicable Compliance Method: Compliance shall be determined through visible emissions observations in accordance with test procedures specified in 40 CFR Part 60, Method 9, and in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

1. None

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Facility ID: 0285010399 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 Model 3516B, 2628 HP (17.53 mmBtu/hr), 1825 KW, diesel fueled engine/electric generator unit (B002).	OAC rule 3745-31-05(A)(3) OEPA PTI #02-2807	a. NOx emissions from this emissions unit shall not exceed 47.69 lbs/hr and 28.61 TPY. b. CO emissions from this emissions unit shall not exceed 3.67lbs/hr and 2.20 TPY. c. Total organic compound (TOC) emissions from this emissions unit shall not exceed 1.06 lb/hr and 0.64 TPY. d. Particulate emissions from this emissions unit shall not exceed 0.062 lb/mmBtu of actual heat input, 1.09 lbs/hr and 0.65 TPY. e. Sulfur dioxide emissions from this emissions unit shall not exceed 0.050 lb/mmBtu actual heat input, 0.88 lb/hr and 0.53 TPY.
	OAC rule 3745-17-07	Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed twenty (20) percent opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(5)(a)	Less stringent than OAC rule 3745-31-05 particulate limit above.
	OAC rule 3745-18-06(G)	Less stringent than OAC rule 3745-31-05 SO2 limit above.
	Synthetic Minor to avoid Title V and PSD requirements	154,080 gals/yr fuel usage as a rolling 12-month summation. For all emissions units, B001, B002, and B003, 85.83 TPY nitrogen oxides, as a rolling, 12-month summation.

2. Additional Terms and Conditions

- (a) The total annual emissions of NOx from all emissions units at this facility shall be limited to 85.83 tons, as a rolling 12-month summation. This annual facility NOx emission limitation shall be achieved by restricting both the maximum quantity of diesel fuel burned and the maximum annual hours of operation for these emissions units in the following manner:
 - i. The maximum annual hours of operation for each of the three diesel engine/generator units shall not exceed 1200 on a rolling 12-month summation basis.
 - ii. The maximum annual quantity of diesel fuel burned in each of the three diesel engine/generator units shall be restricted to 154,080 gallons on a rolling 12-month summation basis.

B. Operational Restrictions

1. 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 0.050 pound SO2/mmBtu of actual heat output.
2. The operation of each of these emissions units (i.e., the firing of each of these engines with diesel fuel accompanied by the generation of electricity) shall be limited to no more than 1200 hours per year, based on a rolling, 12-month summation of operating hours.
3. The maximum quantity of diesel fuel which may be burned in each of these emissions units shall not exceed 154,080 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 the startup of these emissions units, the permittee shall not exceed the diesel fuel usage and operating hours limitations specified in the following table:

CALENDAR ALLOWABLE	ALLOWABLE
MONTH(S)	CUMULATIVE TOTAL

FOLLOWING GALLONS OF FUEL BURNED HOURS OF OPERATION
STARTUP

1 64,200 500
1-2 102,720 800
1-3 115,560 900
1-4 121,980 950
1-5 128,400 1000
1-6 134,820 1050
1-7 138,030 1075
1-8 141,240 1100
1-9 144,450 1125
1-10 147,660 1150
1-11 150,870 1175
1-12 154,080 1200

After the first 12 calendar months of operation following the startup of these emissions units, compliance with the annual diesel fuel usage and operating hours limitations shall be based on rolling, 12-month summations of the operating hours and fuel usage.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information:
 - a. the total volume (in gallons) and the sulfur content of the low sulfur No. 2 diesel fuel burned in each of these emissions units; and
 - b. the total hours of operation of each emissions unit.
2. The permittee shall maintain monthly records of the following information:
 - a. Beginning after the first 12 calendar months of operation following startup of this emissions unit, the rolling, 12-month summation of the operating hours.
 - b. Also, during the first 12 calendar months of operation following startup, the cumulative operating hours for each calendar month.
 - c. Beginning after the first 12 calendar months of operation following startup of this emissions unit, the rolling, 12-month summation of diesel fuel usage.
 - d. Also, during the first 12 calendar months of operation following startup, the cumulative diesel fuel usage for each calendar month.
3. The permittee shall calculate and record, on a monthly basis, the total emissions of NOx, CO, SO2, particulates, and total organic compound emissions for all emissions units utilizing methods of calculation specified in section E of these terms and conditions.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of both the rolling, 12-month fuel usage limitation and the rolling, 12-month operating hours restriction and, for the first 12 calendar months of operation following startup of this emissions unit, all exceedances of the maximum allowable cumulative diesel fuel usage and cumulative operating hours limitations. These reports are due by the dates described in Part I - General Terms and Conditions of this permit under section (A)(1).
2. The permittee shall submit annual reports which summarizes the following information:
 - a. the monthly and annual volume (in gallons) and the sulfur content of the low sulfur diesel fuel burned in each emissions unit;
 - b. the total monthly and annual hours of operation of each emissions unit; and
 - c. the total annual emissions of NOx, CO, particulates, SO2, and total organic compounds from all emissions units for the previous calendar year.

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

E. Testing Requirements

1. Emissions Limitation: NOx emissions from each emissions unit shall not exceed 47.69 lbs/hr and 28.61 TPY; NOx emissions from this facility shall not exceed 85.83 TPY.

Applicable Compliance Method: Compliance shall be based on calculations using the rated horsepower of each emissions unit, the hours of operation recorded above, and the manufacturer's emissions factor specified below with the following equation:

$$ER(\text{HOURLY}) = \text{HP} \times \text{Ef} \times 1/453.6, \text{ and}$$

$$ER(\text{ANNUAL}) = \text{HP} \times \text{Ef} \times 1/453.6 \times \text{A} \times 1/2000.$$

Where:

HP = Rated horsepower of each engine,

Ef = Emissions factor for engine in grams/horsepower-hour (8.23 grams/HP-HR),

A = Annual hours of engine operation.

Annual emissions for the facility shall simply be the sum of the annual emissions for each engine. If required pursuant to OAC rule 3745-15-04, the permittee shall demonstrate compliance with the NOx emissions limits 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.

2. Emissions Limitation: Carbon monoxide emissions from each emissions unit shall not exceed 3.67 lbs/hr and 2.20 TPY.

Applicable Compliance Method: Compliance shall be based on calculations utilizing emissions factors supplied by the manufacturer, the maximum rated horsepower (or heat rate) for each engine, and the hours of operation of this emissions unit as recorded above. If required pursuant to OAC rule 3745-15-04, the permittee shall demonstrate compliance with the CO emissions limits 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.

3. Emissions Limitation: Total organic compound emissions from each emissions unit shall not exceed 1.06 lbs/hr and 0.64 TPY.

Applicable Compliance Method: Compliance shall be based on calculations utilizing emissions factors specified by the manufacturer, the maximum rated horsepower (or heat rate) for each engine, and the hours of operation of this emissions unit as recorded above.

4. Emissions Limitation: Particulate emissions from each emissions unit shall not exceed 0.062 lb/mmBtu of actual heat input, 1.09 lbs/hr, and 0.65 TPY.

Applicable Compliance Method: Compliance shall be based on calculations utilizing emissions factors specified by the manufacturer, the maximum rated horsepower (or heat rate) for each engine, and the hours of operation of this emissions unit as recorded above. If required pursuant to OAC rule 3745-15-04, the permittee shall demonstrate compliance with the particulate emissions limits 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 OAC rule 3745-17-03(B)(7).

5. Emissions Limitation: Sulfur dioxide emissions from each emissions unit shall not exceed 0.050 lb/mmBtu of actual heat input, 0.88 lbs/hr, and 0.53 TPY.

Applicable Compliance Method: Compliance shall be based on calculations utilizing emission factors specified in USEPA's document AP-42, 5th Edition, "Compilation of Air Pollution Emission Factors," Section 3.4, Table 3.4-1(10/96), the maximum rated horsepower (or heat rate) for each engine, and the hours of operation of this emissions unit as recorded above. If required pursuant to OAC rule 3745-15-04, the permittee shall demonstrate compliance with the sulfur dioxide emissions limits 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 6, and in OAC rule 3745-18-04.

6. Emissions Limitation: Visible particulate emissions from the exhaust stack serving each emissions unit shall not exceed twenty (20) percent opacity, as a six-minute average, except for a period of not more than six (6) consecutive minutes in any sixty-minute period.

Applicable Compliance Method: Compliance shall be determined through visible emissions observations in accordance with test procedures specified in 40 CFR Part 60, Method 9, and in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

1. None

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Facility ID: 0285010399 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.

Applicable Emissions Limitations/Control

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Measures</u>
Caterpillar Model 3516B, 2628 HP (17.53 mmBtu/hr), 1825 KW, diesel fueled engine/electric generator unit (B003).	OAC rule 3745-31-05(A)(3) OEPA PTI #02-2807	a. NOx emissions from this emissions unit shall not exceed 47.69 lbs/hr and 28.61 TPY. b. CO emissions from this emissions unit shall not exceed 3.67lbs/hr and 2.20 TPY. c. Total organic compound (TOC) emissions from this emissions unit shall not exceed 1.06 lb/hr and 0.64 TPY. d. Particulate emissions from this emissions unit shall not exceed 0.062 lb/mmBtu of actual heat input, 1.09 lbs/hr and 0.65 TPY. e. Sulfur dioxide emissions from this emissions unit shall not exceed 0.050 lb/mmBtu actual heat input, 0.88 lb/hr and 0.53 TPY.
	OAC rule 3745-17-07	Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed twenty (20) percent opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(5)(a)	Less stringent than OAC rule 3745-31-05 particulate limit above.
	OAC rule 3745-18-06(G)	Less stringent than OAC rule 3745-31-05 SO2 limit above.
	Synthetic Minor to avoid Title V and PSD requirements	154,080 gals/yr fuel usage as a rolling 12-month summation. For all emissions units, B001, B002, and B003, 85.83 TPY nitrogen oxides, as a rolling, 12-month summation.

2. Additional Terms and Conditions

- (a) The total annual emissions of NOx from all emissions units at this facility shall be limited to 85.83 tons, as a rolling 12-month summation. This annual facility NOx emission limitation shall be achieved by restricting both the maximum quantity of diesel fuel burned and the maximum annual hours of operation for these emissions units in the following manner:
 - i. The maximum annual hours of operation for each of the three diesel engine/generator units shall not exceed 1200 on a rolling 12-month summation basis.
 - ii. The maximum annual quantity of diesel fuel burned in each of the three diesel engine/generator units shall be restricted to 154,080 gallons on a rolling 12-month summation basis.

B. Operational Restrictions

1. 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 0.050 pound SO2/mmBtu of actual heat output.
2. The operation of each of these emissions units (i.e., the firing of each of these engines with diesel fuel accompanied by the generation of electricity) shall be limited to no more than 1200 hours per year, based on a rolling, 12-month summation of operating hours.
3. The maximum quantity of diesel fuel which may be burned in each of these emissions units shall not exceed 154,080 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 the startup of these emissions units, the permittee shall not exceed the diesel fuel usage and operating hours limitations specified in the following table:

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

1	64,200	500
1-2	102,720	800
1-3	115,560	900
1-4	121,980	950
1-5	128,400	1000
1-6	134,820	1050
1-7	138,030	1075
1-8	141,240	1100
1-9	144,450	1125
1-10	147,660	1150
1-11	150,870	1175
1-12	154,080	1200

After the first 12 calendar months of operation following the startup of these emissions units, compliance with the annual diesel fuel usage and operating hours limitations shall be based on rolling, 12-month summations of the operating hours and fuel usage.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information:
 - a. the total volume (in gallons) and the sulfur content of the low sulfur No. 2 diesel fuel burned in each of these emissions units; and
 - b. the total hours of operation of each emissions unit.
2. The permittee shall maintain monthly records of the following information:
 - a. Beginning after the first 12 calendar months of operation following startup of this emissions unit, the rolling, 12-month summation of the operating hours.
 - b. Also, during the first 12 calendar months of operation following startup, the cumulative operating hours for each calendar month.
 - c. Beginning after the first 12 calendar months of operation following startup of this emissions unit, the rolling, 12-month summation of diesel fuel usage.
 - d. Also, during the first 12 calendar months of operation following startup, the cumulative diesel fuel usage for each calendar month.
3. The permittee shall calculate and record, on a monthly basis, the total emissions of NO_x, CO, SO₂, particulates, and total organic compound emissions for all emissions units utilizing methods of calculation specified in section E of these terms and conditions.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of both the rolling, 12-month fuel usage limitation and the rolling, 12-month operating hours restriction and, for the first 12 calendar months of operation following startup of this emissions unit, all exceedances of the maximum allowable cumulative diesel fuel usage and cumulative operating hours limitations. These reports are due by the dates described in Part I - General Terms and Conditions of this permit under section (A)(1).
2. The permittee shall submit annual reports which summarizes the following information:
 - a. the monthly and annual volume (in gallons) and the sulfur content of the low sulfur diesel fuel burned in each emissions unit;
 - b. the total monthly and annual hours of operation of each emissions unit; and
 - c. the total annual emissions of NO_x, CO, particulates, SO₂, and total organic compounds from all emissions units for the previous calendar year.

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

E. Testing Requirements

1. Emissions Limitation: NO_x emissions from each emissions unit shall not exceed 47.69 lbs/hr and 28.61 TPY; NO_x emissions from this facility shall not exceed 85.83 TPY.

Applicable Compliance Method: Compliance shall be based on calculations using the rated horsepower of each emissions unit, the hours of operation recorded above, and the manufacturer's emissions factor specified below with the following equation:

$$ER(\text{HOURLY}) = HP \times Ef \times 1/453.6, \text{ and}$$

$$ER(\text{ANNUAL}) = HP \times Ef \times 1/453.6 \times A \times 1/2000.$$

Where:

HP = Rated horsepower of each engine.

Ef = Emissions factor for engine in grams/horsepower-hour (8.23 grams/HP-HR),

A = Annual hours of engine operation.

Annual emissions for the facility shall simply be the sum of the annual emissions for each engine. If required pursuant to OAC rule 3745-15-04, the permittee shall demonstrate compliance with the NO_x emissions limits 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.

2. Emissions Limitation: Carbon monoxide emissions from each emissions unit shall not exceed 3.67 lbs/hr and 2.20 TPY.

Applicable Compliance Method: Compliance shall be based on calculations utilizing emissions factors supplied by the manufacturer, the maximum rated horsepower (or heat rate) for each engine, and the hours of operation of this emissions unit as recorded above. If required pursuant to OAC rule 3745-15-04, the permittee shall demonstrate compliance with the CO emissions limits 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.

3. Emissions Limitation: Total organic compound emissions from each emissions unit shall not exceed 1.06 lbs/hr and 0.64 TPY.

Applicable Compliance Method: Compliance shall be based on calculations utilizing emissions factors specified

by the manufacturer, the maximum rated horsepower (or heat rate) for each engine, and the hours of operation of this emissions unit as recorded above.

4. Emissions Limitation: Particulate emissions from each emissions unit shall not exceed 0.062 lb/mmBtu of actual heat input, 1.09 lbs/hr, and 0.65 TPY.

Applicable Compliance Method: Compliance shall be based on calculations utilizing emissions factors specified by the manufacturer, the maximum rated horsepower (or heat rate) for each engine, and the hours of operation of this emissions unit as recorded above. If required pursuant to OAC rule 3745-15-04, the permittee shall demonstrate compliance with the particulate emissions limits 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 OAC rule 3745-17-03(B)(7).

5. Emissions Limitation: Sulfur dioxide emissions from each emissions unit shall not exceed 0.050 lb/mmBtu of actual heat input, 0.88 lbs/hr, and 0.53 TPY.

Applicable Compliance Method: Compliance shall be based on calculations utilizing emission factors specified in USEPA's document AP-42, 5th Edition, "Compilation of Air Pollution Emission Factors," Section 3.4, Table 3.4-1(10/96), the maximum rated horsepower (or heat rate) for each engine, and the hours of operation of this emissions unit as recorded above. If required pursuant to OAC rule 3745-15-04, the permittee shall demonstrate compliance with the sulfur dioxide emissions limits 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 6, and in OAC rule 3745-18-04.

6. Emissions Limitation: Visible particulate emissions from the exhaust stack serving each emissions unit shall not exceed twenty (20) percent opacity, as a six-minute average, except for a period of not more than six (6) consecutive minutes in any sixty-minute period.

Applicable Compliance Method: Compliance shall be determined through visible emissions observations in accordance with test procedures specified in 40 CFR Part 60, Method 9, and in OAC rule 3745-17-03(B)(1).

F. **Miscellaneous Requirements**

1. None