

Facility ID: 1652070028 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: 1652070028 Emissions Unit ID: B001 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

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>
Seville Diesel Generator Unit #1 -- Caterpillar Model 3516B Packaged 2,628 BHP Diesel Generator Unit -- 17.53 mmBtu/hr maximum rated heat input diesel internal combustion engine driving a 1825 KW maximum rated power output electrical generator	OAC rule 3745-31-05(A)(3) (PTI 16-01997)	Particulate emissions (PE) shall not exceed 0.062 lb/mmBtu of actual heat input and 1.94 tpy. Sulfur dioxide (SO2) emissions shall not exceed 0.89 lb/hr and 1.62 tpy. Carbon monoxide (CO) emissions shall not exceed 3.72 lbs/hr and 6.70 tpy. Nitrogen oxides (NOx) emissions shall not exceed 47.69 lbs/hr. Volatile organic compounds (VOC) emissions shall not exceed 1.06 lbs/hr and 1.85 tpy. Visible particulate emissions from any stack shall not exceed 10% opacity as a 6-minute average. The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rules 3745-31-05(C) and 3745-18-06(G).
	OAC rule 3745-31-05(C)	See sections A.2.a and A.2.b below. NOx emissions from the facility, which consists of three (3) identical diesel-powered electrical generator units, B001 through B003, shall not exceed 85.8 tons/year, based upon a rolling, 12-month summation of the monthly emissions, per the fuel usage restriction of Part II, Section B.1 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)	Sulfur dioxide (SO2) emissions shall not exceed 0.5 pound SO2 per million Btu actual heat input.

2. Additional Terms and Conditions

- (a) 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 1.94 tpy;
 SO₂: 0.89 lb/hr, 0.5 lb/mmBtu of actual heat input and 1.62 tpy;
 CO: 3.72 lbs/hr and 6.70 tpy;
 NO_x: 47.69 lbs/hr; and
 VOC: 1.06 lbs/hr and 1.85 tpy.

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).
 The diesel generator shall be equipped with a low NO_x combustion control module to minimize NO_x emissions.

B. Operational Restrictions

1. The maximum annual diesel fuel usage for the entire facility (B001 through B003) shall not exceed 462,240 gallons, based upon a rolling, 12-month summation of the monthly fuel usage rates. This is a synthetic minor potential to emit condition and shall be a federally enforceable requirement.

The permittee has existing fuel usage records such that there is no need for first year cumulative monthly fuel usage limitations.

2. The permittee shall only burn low sulfur diesel fuel, containing less than 0.05% sulfur, by weight, in this emissions unit.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall record the following information each month:
 - a. the aggregate fuel usage of B001 through B003;
 - b. the rolling, 12-month summation of the monthly aggregate fuel usage rates of B001 through B003;
 - c. the aggregate NO_x emissions (tons) from B001 through B003; and
 - d. the rolling, 12-month summation of the monthly aggregate NO_x emissions (tons) from B001 through B003.
2. For each day a fuel other than the diesel fuel specified above is burned, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit. The permittee shall also maintain documentation of the sulfur content of all fuels received.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month summation of the monthly aggregate fuel usage rates of B001 through B003 limitation, as well as the corrective actions that were taken to achieve compliance. These reports are due by the date described in Part I - General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month summation of the monthly aggregate NO_x emissions from B001 through B003 limitation, as well as the corrective actions that were taken to achieve compliance. These reports are due by the date described in Part I - General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these special terms and conditions shall be determined in accordance with the following methods:
 Emission Limitations:

PE shall not exceed 0.062 lb/mmBtu of actual heat input and 1.94 tpy.

Applicable Compliance Method:

The above particulates emissions limitations are greater than the emissions unit's potential to emit (PTE), as demonstrated below:

$$U = FD/H$$

$$R = YD/2000$$

where:

U = 0.044 lb particulates/mmBtu [unrestricted PTE];
 R = 1.39 tpy particulates [restricted PTE per facility fuel usage restriction];
 D = 0.006 lb particulates/gallon [manufacturer's emissions data burning low-sulfur diesel fuel];
 H = 17.53 mmBtu/hour [emissions unit maximum rated heat input];
 F = 128.4 gallons/hour [emissions unit maximum rated fuel usage]; and
 Y = 462,240 gallons/year [yearly facility fuel usage restriction].

If required, compliance shall be demonstrated by performing an emission test in accordance with the procedures specified in Method 5 of 40 CFR Part 60, Appendix A.
 Emission Limitations:

SO₂ emissions shall not exceed 0.89 lb/hr and 1.62 tpy.

Applicable Compliance Method:

The above SO₂ emission limitations are equal to the emissions unit's potential to emit (PTE), as demonstrated below:

$$U = FD$$
$$R = YD/2000$$

where:

U = 0.89 lb/hr SO₂ [unrestricted PTE per emissions unit];
R = 1.62 tpy SO₂ [restricted PTE per facility fuel usage restriction];
D = 0.007 lb SO₂/gallon [manufacturer's emissions data burning low-sulfur diesel fuel];
F = 128.4 gallons/hour [emissions unit maximum rated fuel usage]; and
Y = 462,240 gallons/year [yearly facility fuel usage restriction].

If required, compliance shall be demonstrated by performing an emission test in accordance with the procedures specified in Method 6 of 40 CFR Part 60, Appendix A.

Emission Limitations:

CO emissions shall not exceed 3.72 lbs/hr and 6.70 tpy.

Applicable Compliance Method:

The above CO emission limitations are equal to the emissions unit's potential to emit (PTE), as demonstrated below:

$$U = FD$$
$$R = YD/2000$$

where:

U = 3.72 lbs/hr CO [unrestricted PTE per emissions unit];
R = 6.70 tpy CO [restricted PTE per facility fuel usage restriction];
D = 0.029 lb CO/gallon [manufacturer's emissions data burning low-sulfur diesel fuel];
F = 128.4 gallons/hour [emissions unit maximum rated fuel usage]; and
Y = 462,240 gallons/year [yearly facility fuel usage restriction].

If required, compliance shall be demonstrated by performing an emission test in accordance with the procedures specified in Method 10 of 40 CFR Part 60, Appendix A.

Emission Limitations:

NO_x emissions shall not exceed 47.69 lbs/hr and 85.8 tpy.

Applicable Compliance Method:

The above NO_x emission limitations are equal to the emissions unit's potential to emit (PTE), as demonstrated below:

$$U = FD$$
$$R = YD/2000$$

where:

U = 47.69 lbs/hr NO_x [unrestricted PTE per emissions unit];
R = 85.8 tpy NO_x [restricted PTE per facility fuel usage restriction];
D = 0.371 lb NO_x/gallon [manufacturer's emissions data burning low-sulfur diesel fuel];
F = 128.4 gallons/hour [emissions unit maximum rated fuel usage]; and
Y = 462,240 gallons/year [yearly facility fuel usage restriction].

If required, compliance shall be demonstrated by performing an emission test in accordance with the procedures specified in Method 7 or 7E of 40 CFR Part 60, Appendix A.

Emission Limitations:

VOC emissions shall not exceed 1.06 lbs/hr and 1.85 tpy.

Applicable Compliance Method:

The above VOC emission limitations are equal to the emissions unit's potential to emit (PTE), as demonstrated below:

$$U = FD$$
$$R = YD/2000$$

where:

U = 1.06 lbs/hr VOC [unrestricted PTE per emissions unit];
R = 1.85 tpy VOC [restricted PTE per facility fuel usage restriction];
D = 0.008 lb VOC/gallon [manufacturer's emissions data burning low-sulfur diesel fuel];
F = 128.4 gallons/hour [emissions unit maximum rated fuel usage]; and
Y = 462,240 gallons/year [yearly facility fuel usage restriction].

If required, compliance shall be demonstrated by performing an emission test in accordance with the procedures specified in Method 25 of 40 CFR Part 60, Appendix A.

Emission Limitation:

Visible particulate emissions from any stack shall not exceed 10% opacity as a 6-minute average.

Applicable Compliance Method:

If required, compliance shall be demonstrated by performing visible particulate emission observations in accordance with the procedures specified in Method 9 of 40 CFR Part 60, Appendix A.

Emission Limitation:

0.5 pound SO2 per million Btu actual heat input

Applicable Compliance Method:

The above SO2 emission limitation is greater than the emissions unit's potential to emit, as demonstrated below:

Use the AP-42, 10/96, Table 3.4-1 emission factor of 0.05 lb SO2/mmBtu of heat input (based upon a diesel fuel sulfur content of 0.05%, by weight, as determined from the application).

If required, compliance shall be demonstrated by performing an emission test in accordance with the procedures specified in Method 6 of 40 CFR Part 60, Appendix A.

F. Miscellaneous Requirements

- 1. None

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Facility ID: 1652070028 Emissions Unit ID: B002 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

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>
Seville Diesel Generator Unit #2 -- Caterpillar Model 3516B Packaged 2,628 BHP Diesel Generator Unit -- 17.53 mmBtu/hr maximum rated heat input diesel internal combustion engine driving a 1825 KW maximum rated power output electrical generator	OAC rule 3745-31-05(A)(3) (PTI 16-01997)	Particulate emissions (PE) shall not exceed 0.062 lb/mmBtu of actual heat input and 1.94 tpy. Sulfur dioxide (SO2) emissions shall not exceed 0.89 lb/hr and 1.62 tpy. Carbon monoxide (CO) emissions shall not exceed 3.72 lbs/hr and 6.70 tpy. Nitrogen oxides (NOx) emissions shall not exceed 47.69 lbs/hr. Volatile organic compounds (VOC) emissions shall not exceed 1.06 lbs/hr and 1.85 tpy. Visible particulate emissions from any stack shall not exceed 10% opacity as a 6-minute average. The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rules 3745-31-05(C) and 3745-18-06(G).
	OAC rule 3745-31-05(C)	See sections A.2.a and A.2.b below. NOx emissions from the facility, which consists of three (3) identical diesel-powered electrical generator units, B001 through B003, shall not exceed 85.8 tons/year, based upon a rolling, 12-month summation

of the monthly emissions, per the fuel usage restriction of Part II, Section B.1 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)

Sulfur dioxide (SO₂) emissions shall not exceed 0.5 pound SO₂ per million Btu actual heat input.

2. Additional Terms and Conditions

- (a) 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 1.94 tpy;
SO₂: 0.89 lb/hr, 0.5 lb/mmBtu of actual heat input and 1.62 tpy;
CO: 3.72 lbs/hr and 6.70 tpy;
NO_x: 47.69 lbs/hr; and
VOC: 1.06 lbs/hr and 1.85 tpy.

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).

The diesel generator shall be equipped with a low NO_x combustion control module to minimize NO_x emissions.

B. Operational Restrictions

1. The maximum annual diesel fuel usage for the entire facility (B001 through B003) shall not exceed 462,240 gallons, based upon a rolling, 12-month summation of the monthly fuel usage rates. This is a synthetic minor potential to emit condition and shall be a federally enforceable requirement.

The permittee has existing fuel usage records such that there is no need for first year cumulative monthly fuel usage limitations.

2. The permittee shall only burn low sulfur diesel fuel, containing less than 0.05% sulfur, by weight, in this emissions unit.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall record the following information each month:
- the aggregate fuel usage of B001 through B003;
 - the rolling, 12-month summation of the monthly aggregate fuel usage rates of B001 through B003;
 - the aggregate NO_x emissions (tons) from B001 through B003; and
 - the rolling, 12-month summation of the monthly aggregate NO_x emissions (tons) from B001 through B003.
2. For each day a fuel other than the diesel fuel specified above is burned, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit. The permittee shall also maintain documentation of the sulfur content of all fuels received.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month summation of the monthly aggregate fuel usage rates of B001 through B003 limitation, as well as the corrective actions that were taken to achieve compliance. These reports are due by the date described in Part I - General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month summation of the monthly aggregate NO_x emissions from B001 through B003 limitation, as well as the corrective actions that were taken to achieve compliance. These reports are due by the date described in Part I - General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these special terms and conditions shall be determined in accordance with the following methods:
Emission Limitations:

PE shall not exceed 0.062 lb/mmBtu of actual heat input and 1.94 tpy.

Applicable Compliance Method:

The above particulates emissions limitations are greater than the emissions unit's potential to emit (PTE), as demonstrated below:

U = FD/H
R = YD/2000

where:

U = 0.044 lb particulates/mmBtu [unrestricted PTE];
 R = 1.39 tpy particulates [restricted PTE per facility fuel usage restriction];
 D = 0.006 lb particulates/gallon [manufacturer's emissions data burning low-sulfur diesel fuel];
 H = 17.53 mmBtu/hour [emissions unit maximum rated heat input];
 F = 128.4 gallons/hour [emissions unit maximum rated fuel usage]; and
 Y = 462,240 gallons/year [yearly facility fuel usage restriction].

If required, compliance shall be demonstrated by performing an emission test in accordance with the procedures specified in Method 5 of 40 CFR Part 60, Appendix A.
 Emission Limitations:

SO₂ emissions shall not exceed 0.89 lb/hr and 1.62 tpy.

Applicable Compliance Method:

The above SO₂ emission limitations are equal to the emissions unit's potential to emit (PTE), as demonstrated below:

U = FD
 R = YD/2000

where:

U = 0.89 lb/hr SO₂ [unrestricted PTE per emissions unit];
 R = 1.62 tpy SO₂ [restricted PTE per facility fuel usage restriction];
 D = 0.007 lb SO₂/gallon [manufacturer's emissions data burning low-sulfur diesel fuel];
 F = 128.4 gallons/hour [emissions unit maximum rated fuel usage]; and
 Y = 462,240 gallons/year [yearly facility fuel usage restriction].

If required, compliance shall be demonstrated by performing an emission test in accordance with the procedures specified in Method 6 of 40 CFR Part 60, Appendix A.
 Emission Limitations:

CO emissions shall not exceed 3.72 lbs/hr and 6.70 tpy.

Applicable Compliance Method:

The above CO emission limitations are equal to the emissions unit's potential to emit (PTE), as demonstrated below:

U = FD
 R = YD/2000

where:

U = 3.72 lbs/hr CO [unrestricted PTE per emissions unit];
 R = 6.70 tpy CO [restricted PTE per facility fuel usage restriction];
 D = 0.029 lb CO/gallon [manufacturer's emissions data burning low-sulfur diesel fuel];
 F = 128.4 gallons/hour [emissions unit maximum rated fuel usage]; and
 Y = 462,240 gallons/year [yearly facility fuel usage restriction].

If required, compliance shall be demonstrated by performing an emission test in accordance with the procedures specified in Method 10 of 40 CFR Part 60, Appendix A.
 Emission Limitations:

NO_x emissions shall not exceed 47.69 lbs/hr and 85.8 tpy.

Applicable Compliance Method:

The above NO_x emission limitations are equal to the emissions unit's potential to emit (PTE), as demonstrated below:

U = FD
 R = YD/2000

where:

U = 47.69 lbs/hr NO_x [unrestricted PTE per emissions unit];
 R = 85.8 tpy NO_x [restricted PTE per facility fuel usage restriction];
 D = 0.371 lb NO_x/gallon [manufacturer's emissions data burning low-sulfur diesel fuel];
 F = 128.4 gallons/hour [emissions unit maximum rated fuel usage]; and
 Y = 462,240 gallons/year [yearly facility fuel usage restriction].

If required, compliance shall be demonstrated by performing an emission test in accordance with the procedures specified in Method 7 or 7E of 40 CFR Part 60, Appendix A.
 Emission Limitations:

VOC emissions shall not exceed 1.06 lbs/hr and 1.85 tpy.

Applicable Compliance Method:

The above VOC emission limitations are equal to the emissions unit's potential to emit (PTE), as demonstrated below:

U = FD
 R = YD/2000

where:

- U = 1.06 lbs/hr VOC [unrestricted PTE per emissions unit];
- R = 1.85 tpy VOC [restricted PTE per facility fuel usage restriction];
- D = 0.008 lb VOC/gallon [manufacturer's emissions data burning low-sulfur diesel fuel];
- F = 128.4 gallons/hour [emissions unit maximum rated fuel usage]; and
- Y = 462,240 gallons/year [yearly facility fuel usage restriction].

If required, compliance shall be demonstrated by performing an emission test in accordance with the procedures specified in Method 25 of 40 CFR Part 60, Appendix A.
Emission Limitation:

Visible particulate emissions from any stack shall not exceed 10% opacity as a 6-minute average.

Applicable Compliance Method:

If required, compliance shall be demonstrated by performing visible particulate emission observations in accordance with the procedures specified in Method 9 of 40 CFR Part 60, Appendix A.
Emission Limitation:

0.5 pound SO2 per million Btu actual heat input

Applicable Compliance Method:

The above SO2 emission limitation is greater than the emissions unit's potential to emit, as demonstrated below:

Use the AP-42, 10/96, Table 3.4-1 emission factor of 0.05 lb SO2/mmBtu of heat input (based upon a diesel fuel sulfur content of 0.05%, by weight, as determined from the application).

If required, compliance shall be demonstrated by performing an emission test in accordance with the procedures specified in Method 6 of 40 CFR Part 60, Appendix A.

F. Miscellaneous Requirements

1. None

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Facility ID: 1652070028 Emissions Unit ID: B003 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

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>
Seville Diesel Generator Unit #3 -- Caterpillar Model 3516B Packaged 2,628 BHP Diesel Generator Unit -- 17.53 mmBtu/hr maximum rated heat input diesel internal combustion engine driving a 1825 KW maximum rated power output electrical generator	OAC rule 3745-31-05(A)(3) (PTI 16-01997)	Particulate emissions (PE) shall not exceed 0.062 lb/mmBtu of actual heat input and 1.94 tpy. Sulfur dioxide (SO2) emissions shall not exceed 0.89 lb/hr and 1.62 tpy. Carbon monoxide (CO) emissions shall not exceed 3.72 lbs/hr and 6.70 tpy. Nitrogen oxides (NOx) emissions shall not exceed 47.69 lbs/hr. Volatile organic compounds (VOC) emissions shall

not exceed 1.06 lbs/hr and 1.85 tpy.

Visible particulate emissions from any stack shall not exceed 10% opacity as a 6-minute average.

The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rules 3745-31-05(C) and 3745-18-06(G).

See sections A.2.a and A.2.b 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 85.8 tons/year, based upon a rolling, 12-month summation of the monthly emissions, per the fuel usage restriction of Part II, Section B.1 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)

Sulfur dioxide (SO₂) emissions shall not exceed 0.5 pound SO₂ per million Btu actual heat input.

2. Additional Terms and Conditions

- (a) 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 1.94 tpy;
SO₂: 0.89 lb/hr, 0.5 lb/mmBtu of actual heat input and 1.62 tpy;
CO: 3.72 lbs/hr and 6.70 tpy;
NOx: 47.69 lbs/hr; and
VOC: 1.06 lbs/hr and 1.85 tpy.

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).
The diesel generator shall be equipped with a low NOx combustion control module to minimize NOx emissions.

B. Operational Restrictions

- 1. The maximum annual diesel fuel usage for the entire facility (B001 through B003) shall not exceed 462,240 gallons, based upon a rolling, 12-month summation of the monthly fuel usage rates. This is a synthetic minor potential to emit condition and shall be a federally enforceable requirement.

The permittee has existing fuel usage records such that there is no need for first year cumulative monthly fuel usage limitations.

- 2. The permittee shall only burn low sulfur diesel fuel, containing less than 0.05% sulfur, by weight, in this emissions unit.

C. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall record the following information each month:
 - a. the aggregate fuel usage of B001 through B003;
 - b. the rolling, 12-month summation of the monthly aggregate fuel usage rates of B001 through B003;
 - c. the aggregate NOx emissions (tons) from B001 through B003; and
 - d. the rolling, 12-month summation of the monthly aggregate NOx emissions (tons) from B001 through B003.
- 2. For each day a fuel other than the diesel fuel specified above is burned, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit. The permittee shall also maintain documentation of the sulfur content of all fuels received.

D. Reporting Requirements

- 1. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month summation of the monthly aggregate fuel usage rates of B001 through B003 limitation, as well as the corrective actions that were taken to achieve compliance. These reports are due by the date described in Part I - General Terms and Conditions of this permit.
- 2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month summation of the monthly aggregate NOx emissions from B001 through B003 limitation, as well as the corrective actions that were taken to achieve compliance. These reports are due by the date described in Part I - General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these special terms and conditions shall be determined in accordance with the following methods:
Emission Limitations:

PE shall not exceed 0.062 lb/mmBtu of actual heat input and 1.94 tpy.

Applicable Compliance Method:

The above particulates emissions limitations are greater than the emissions unit's potential to emit (PTE), as demonstrated below:

$U = FD/H$
 $R = YD/2000$

where:

$U = 0.044$ lb particulates/mmBtu [unrestricted PTE];
 $R = 1.39$ tpy particulates [restricted PTE per facility fuel usage restriction];
 $D = 0.006$ lb particulates/gallon [manufacturer's emissions data burning low-sulfur diesel fuel];
 $H = 17.53$ mmBtu/hour [emissions unit maximum rated heat input];
 $F = 128.4$ gallons/hour [emissions unit maximum rated fuel usage]; and
 $Y = 462,240$ gallons/year [yearly facility fuel usage restriction].

If required, compliance shall be demonstrated by performing an emission test in accordance with the procedures specified in Method 5 of 40 CFR Part 60, Appendix A.
Emission Limitations:

SO₂ emissions shall not exceed 0.89 lb/hr and 1.62 tpy.

Applicable Compliance Method:

The above SO₂ emission limitations are equal to the emissions unit's potential to emit (PTE), as demonstrated below:

$U = FD$
 $R = YD/2000$

where:

$U = 0.89$ lb/hr SO₂ [unrestricted PTE per emissions unit];
 $R = 1.62$ tpy SO₂ [restricted PTE per facility fuel usage restriction];
 $D = 0.007$ lb SO₂/gallon [manufacturer's emissions data burning low-sulfur diesel fuel];
 $F = 128.4$ gallons/hour [emissions unit maximum rated fuel usage]; and
 $Y = 462,240$ gallons/year [yearly facility fuel usage restriction].

If required, compliance shall be demonstrated by performing an emission test in accordance with the procedures specified in Method 6 of 40 CFR Part 60, Appendix A.
Emission Limitations:

CO emissions shall not exceed 3.72 lbs/hr and 6.70 tpy.

Applicable Compliance Method:

The above CO emission limitations are equal to the emissions unit's potential to emit (PTE), as demonstrated below:

$U = FD$
 $R = YD/2000$

where:

$U = 3.72$ lbs/hr CO [unrestricted PTE per emissions unit];
 $R = 6.70$ tpy CO [restricted PTE per facility fuel usage restriction];
 $D = 0.029$ lb CO/gallon [manufacturer's emissions data burning low-sulfur diesel fuel];
 $F = 128.4$ gallons/hour [emissions unit maximum rated fuel usage]; and
 $Y = 462,240$ gallons/year [yearly facility fuel usage restriction].

If required, compliance shall be demonstrated by performing an emission test in accordance with the procedures specified in Method 10 of 40 CFR Part 60, Appendix A.
Emission Limitations:

NO_x emissions shall not exceed 47.69 lbs/hr and 85.8 tpy.

Applicable Compliance Method:

The above NO_x emission limitations are equal to the emissions unit's potential to emit (PTE), as demonstrated below:

$U = FD$
 $R = YD/2000$

where:

$U = 47.69$ lbs/hr NO_x [unrestricted PTE per emissions unit];
 $R = 85.8$ tpy NO_x [restricted PTE per facility fuel usage restriction];
 $D = 0.371$ lb NO_x/gallon [manufacturer's emissions data burning low-sulfur diesel fuel];

F = 128.4 gallons/hour [emissions unit maximum rated fuel usage]; and
Y = 462,240 gallons/year [yearly facility fuel usage restriction].

If required, compliance shall be demonstrated by performing an emission test in accordance with the procedures specified in Method 7 or 7E of 40 CFR Part 60, Appendix A.
Emission Limitations:

VOC emissions shall not exceed 1.06 lbs/hr and 1.85 tpy.

Applicable Compliance Method:

The above VOC emission limitations are equal to the emissions unit's potential to emit (PTE), as demonstrated below:

U = FD
R = YD/2000

where:

U = 1.06 lbs/hr VOC [unrestricted PTE per emissions unit];
R = 1.85 tpy VOC [restricted PTE per facility fuel usage restriction];
D = 0.008 lb VOC/gallon [manufacturer's emissions data burning low-sulfur diesel fuel];
F = 128.4 gallons/hour [emissions unit maximum rated fuel usage]; and
Y = 462,240 gallons/year [yearly facility fuel usage restriction].

If required, compliance shall be demonstrated by performing an emission test in accordance with the procedures specified in Method 25 of 40 CFR Part 60, Appendix A.
Emission Limitation:

Visible particulate emissions from any stack shall not exceed 10% opacity as a 6-minute average.

Applicable Compliance Method:

If required, compliance shall be demonstrated by performing visible particulate emission observations in accordance with the procedures specified in Method 9 of 40 CFR Part 60, Appendix A.
Emission Limitation:

0.5 pound SO₂ per million Btu actual heat input

Applicable Compliance Method:

The above SO₂ emission limitation is greater than the emissions unit's potential to emit, as demonstrated below:

Use the AP-42, 10/96, Table 3.4-1 emission factor of 0.05 lb SO₂/mmBtu of heat input (based upon a diesel fuel sulfur content of 0.05%, by weight, as determined from the application).

If required, compliance shall be demonstrated by performing an emission test in accordance with the procedures specified in Method 6 of 40 CFR Part 60, Appendix A.

F. **Miscellaneous Requirements**

1. None