

Facility ID: 0387020323 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.

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Facility ID: 0387020323 Emissions Unit ID: P001 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>
BG-1, Diesel Generator Omega JV-3	PTI # 03-8009	3.8 lbs PM/hr (0.25 lb PM/MMBTU)
		7.68 lbs SO2/hr (0.5 lb SO2/MMBTU)
		54.8 lbs NOx/hr
		1.4 lbs VOC/hr
		16.8 lbs CO/hr
		See AT&C 2.a
		Best available technology (see AT&C 2.b)
		0.25 lb PM/MMBTU
	3745-17-11	0.5 lb SO2/MMBTU
	3745-18-06	*
	3745-23-06	*
	3745-21-07	*
	3745-21-08	*
	3745-17-07	

2. Additional Terms and Conditions

- (a) Visible particulate emissions shall not exceed 5% opacity as a six-minute average except for a one hour period during the startup of the engine. Visible particulate emissions during this one hour period shall not exceed 20% opacity as a six-minute average. The permittee shall employ only #2 diesel fuel oil in this emissions unit.

* The emissions limit based on this applicable rule is less stringent than the PTI limit above.

B. Operational Restrictions

1. The permittee shall not operate this emissions unit more than 452 hours per rolling, 12-month period. Also, the permittee shall not burn more than 54,240 gallons of #2 diesel fuel oil per rolling, 12-month period.
2. This permittee shall burn not more than a maximum of 120 gallons of #2 diesel fuel oil per hour in this emissions unit. (This emissions unit has a maximum output rating of 1750 Kw and a maximum heat input of 15.36 MMBTU/hr.)

3. The quality of the diesel fuel oil burned in this emissions unit shall meet a sulfur content, which is sufficient to comply with the allowable sulfur dioxide emission limitation of 7.68 lbs/hr, on an as-received basis.
- C. Monitoring and/or Record Keeping Requirements**
1. The permittee shall maintain monthly records which list the following information for this emissions unit:
 - a. the total gallons of fuel consumed for that month and the previous 11-month period; and
 - b. the total hours of operation for that month and the previous 11-month period.
 2. This engine shall be equipped with a timer which allows the hours of operation to be tracked.
 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, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated SO₂ emissions rate in lb/MMBTU.

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 and heat content 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 appropriate Ohio EPA District Office or local air agency.
- D. Reporting Requirements**
1. The permittee shall submit annual deviation (excursion) reports which identify all exceedances of the allowables of 452 hours of operation per rolling, 12-month period, the 54,240 gallons of #2 diesel fuel oil burned per rolling, 12-month period and the SO₂ emission rate of 0.5 lb/MMBTU, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.
- E. Testing Requirements**
1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation-
7.68 lbs SO₂/hr (0.5 lb SO₂/MMBTU)

Applicable Compliance Method-
Compliance shall be based upon the analytical results of each shipment of oil, using the equation contained in OAC rule 3745-18-04(F)(2) to calculate the actual emission rate . Or, if required, the permittee shall demonstrate compliance with the above emissions limit in accordance with Method 6, 40 CFR Part 60, Appendix A. (As long as compliance with the limit of 0.5 lb SO₂/MMBTU is maintained, compliance with the limit of 7.68 lbs SO₂/hr is also maintained since these two limits are equivalent.)

Emission Limitation-
3.8 lbs PM/hr (0.25 lb PM/MMBTU)

Applicable Compliance Method-
Multiply the PM emissions factor from the 5th Edition of AP-42, Table 1.3-2 (2 lbs PM/1000 gallons of #2 fuel oil) by the actual maximum hourly #2 diesel fuel oil consumption rate. Or, if required, the permittee shall demonstrate compliance with the above emissions limit in accordance with Method 5, 40 CFR Part 60, Appendix A. (As long as compliance with the limit of 3.8 lbs PM/hr is maintained, compliance with the limit of 0.25 lb PM/MMBTU is also maintained since these two limits are equivalent.)

Emission Limitation-
54.8 lbs NO_x/hr

Applicable Compliance Method-
Multiply the NO_x emissions factor from the 5th Edition of AP-42, Table 1.3-2 (20 lbs NO_x/1000 gallons of #2 fuel oil) by the actual maximum hourly #2 fuel oil consumption rate. Or, if required, the permittee shall demonstrate compliance with the above emissions limit in accordance with Method 7, 40 CFR Part 60, Appendix A.

Emission Limitation-
16.8 lbs CO/hr

Applicable Compliance Method-
Multiply the CO emissions factor from the 5th Edition of AP-42, Table 1.3-2 (5 lbs CO/1000 gallons of #2 fuel oil) by the actual maximum hourly #2 fuel oil consumption rate. Or, if required, the permittee shall demonstrate compliance with the above emissions limit in accordance with Method 10, 40 CFR Part 60, Appendix A.

Emission Limitation-
1.4 lbs VOC/hr

Applicable Compliance Method-
Multiply the VOC emissions factor from the 5th Edition of AP-42, Table 1.3-4 (0.2 lb VOC/1000 gallons of #2 fuel oil) by the actual maximum hourly #2 fuel oil consumption rate. Or, if required, the permittee shall demonstrate compliance with the above emissions limit in accordance with Method 25A, 40 CFR Part 60, Appendix A.

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

Applicable Compliance Method-
OAC rule 3745-17-03(B)(1).
- F. Miscellaneous Requirements**
1. None

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Facility ID: 0387020323 Emissions Unit ID: P002 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>
BG-2, Diesel Generator Omega JV-5	PTI # 03-8009	3.6 lbs PM/hr (0.25 lb PM/MMBTU)
		8.03 lbs SO2/hr (0.5 lb SO2/MMBTU)
		58.2 lbs NOx/hr
		1.0 lb VOC/hr
		12.2 lbs CO/hr
		See AT&C 2.a
		Best available technology (see AT&C 2.b)
		0.25 lb PM/MMBTU
		0.5 lb SO2/MMBTU
	3745-17-11	*
	3745-18-06	*
	3745-23-06	*
	3745-21-07	*
	3745-21-08	*
	3745-17-07	

2. Additional Terms and Conditions

- (a) Visible particulate emissions shall not exceed 5% opacity as a six-minute average except for a one hour period during the startup of the engine. Visible particulate emissions during this one hour period shall not exceed 20% opacity as a six-minute average.
The permittee shall employ only #2 diesel fuel oil in this emissions unit.

* The emissions limit based on this applicable rule is less stringent than the PTI limit above.

B. Operational Restrictions

1. The permittee shall not operate this emissions unit more than 750 hours per rolling, 12-month period. Also, the permittee shall not burn more than 93,525 gallons of #2 diesel fuel oil per rolling, 12-month period.
2. This permittee shall burn not more than a maximum of 124.7 gallons of #2 diesel fuel oil per hour in this emissions unit. (This emissions unit has a maximum output rating of 1800 Kw and a maximum heat input of 16.06 MMBTU/hr.)
3. The quality of the diesel fuel oil burned in this emissions unit shall meet a sulfur content, which is sufficient to comply with the allowable sulfur dioxide emission limitation of 8.03 lbs/hr, on an as-received basis.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records which list the following information for this emissions unit:
 - a. the total gallons of fuel consumed for that month and the previous 11-month period; and
 - b. the total hours of operation for that month and the previous 11-month period.
2. This engine shall be equipped with a timer which allows the hours of operation to be tracked.

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, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated SO₂ emissions rate in lb/MMBTU.

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 and heat content 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 appropriate Ohio EPA District Office or local air agency.

D. Reporting Requirements

1. The permittee shall submit annual deviation (excursion) reports which identify all exceedances of the allowables of 750 hours of operation per rolling, 12-month period, the 93,525 gallons of #2 diesel fuel oil burned per rolling, 12-month period and the SO₂ emission rate of 0.5 lb/MMBTU, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation-
8.03 lbs SO₂/hr (0.5 lb SO₂/MMBTU)

Applicable Compliance Method-

Compliance shall be based upon the analytical results of each shipment of oil, using the equation contained in OAC rule 3745-18-04(F)(2) to calculate the actual emission rate. Or, if required, the permittee shall demonstrate compliance with the above emissions limit in accordance with Method 6, 40 CFR Part 60, Appendix A. (As long as compliance with the limit of 0.5 lb SO₂/MMBTU is maintained, compliance with the limit of 7.68 lbs SO₂/hr is also maintained since these two limits are equivalent.)

Emission Limitation-
3.6 lbs PM/hr (0.25 lb PM/MMBTU)

Applicable Compliance Method-

Multiply the PM emissions factor from the 5th Edition of AP-42, Table 1.3-2 (2 lbs PM/1000 gallons of #2 fuel oil) by the actual maximum hourly #2 diesel fuel oil consumption rate. Or, if required, the permittee shall demonstrate compliance with the above emissions limit in accordance with Method 5, 40 CFR Part 60, Appendix A. (As long as compliance with the limit of 3.8 lbs PM/hr is maintained, compliance with the limit of 0.25 lb PM/MMBTU is also maintained since these two limits are equivalent.)

Emission Limitation-
58.2 lbs NO_x/hr

Applicable Compliance Method-

Multiply the NO_x emissions factor from the 5th Edition of AP-42, Table 1.3-2 (20 lbs NO_x/1000 gallons of #2 fuel oil) by the actual maximum hourly #2 fuel oil consumption rate. Or, if required, the permittee shall demonstrate compliance with the above emissions limit in accordance with Method 7, 40 CFR Part 60, Appendix A.

Emission Limitation-
12.2 lbs CO/hr

Applicable Compliance Method-

Multiply the CO emissions factor from the 5th Edition of AP-42, Table 1.3-2 (5 lbs CO/1000 gallons of #2 fuel oil) by the actual maximum hourly #2 fuel oil consumption rate. Or, if required, the permittee shall demonstrate compliance with the above emissions limit in accordance with Method 10, 40 CFR Part 60, Appendix A.

Emission Limitation-
1.0 lb VOC/hr

Applicable Compliance Method-

Multiply the VOC emissions from the 5th Edition of AP-42, Table 1.3-4 (0.2 lb VOC/1000 gallons of #2 fuel oil) by the actual maximum hourly #2 fuel oil consumption rate. Or, if required, the permittee shall demonstrate compliance with the above emissions limit in accordance with Method 25A, 40 CFR Part 60, Appendix A.

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

Applicable Compliance Method-

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

F. Miscellaneous Requirements

1. None

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Facility ID: 0387020323 Emissions Unit ID: P003 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>
BG-3, Diesel Generator Omega JV-5	PTI # 03-8009	3.6 lbs PM/hr (0.25 lb PM/MMBTU)
		8.03 lbs SO2/hr (0.5 lb SO2/MMBTU)
		58.2 lbs NOx/hr
		1.0 lb VOC/hr
		12.2 lbs CO/hr
		See AT&C 2.a
		Best available technology (see AT&C 2.b)
		0.25 lb PM/MMBTU
	3745-17-11	0.5 lb SO2/MMBTU
	3745-18-06	*
	3745-23-06	*
	3745-21-07	*
	3745-21-08	*
	3745-17-07	

2. Additional Terms and Conditions

- (a) Visible particulate emissions shall not exceed 5% opacity as a six-minute average except for a one hour period during the startup of the engine. Visible particulate emissions during this one hour period shall not exceed 20% opacity as a six-minute average.
The permittee shall employ only #2 diesel fuel oil in this emissions unit.

* The emissions limit based on this applicable rule is less stringent than the PTI limit above.

B. Operational Restrictions

- 1. The permittee shall not operate this emissions unit more than 750 hours per rolling, 12-month period. Also, the permittee shall not burn more than 93,525 gallons of #2 diesel fuel oil per rolling, 12-month period.
- 2. This permittee shall burn not more than a maximum of 124.7 gallons of #2 diesel fuel oil per hour in this emissions unit. (This emissions unit has a maximum output rating of 1800 Kw and a maximum heat input of 16.06 MMBTU/hr.)
- 3. The quality of the diesel fuel oil burned in this emissions unit shall meet a sulfur content, which is sufficient to comply with the allowable sulfur dioxide emission limitation of 8.03 lbs/hr, on an as-received basis.

C. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall maintain monthly records which list the following information for this emissions unit:
 - a. the total gallons of fuel consumed for that month and the previous 11-month period; and
 - b. the total hours of operation for that month and the previous 11-month period.
- 2. This engine shall be equipped with a timer which allows the hours of operation to be tracked.
- 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, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated SO2 emissions rate in lb/MMBTU.

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 and heat content 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 appropriate Ohio EPA District Office or local air agency.

D. Reporting Requirements

- 1. The permittee shall submit annual deviation (excursion) reports which identify all exceedances of the allowables of

750 hours of operation per rolling, 12-month period, the 93,525 gallons of #2 diesel fuel oil burned per rolling, 12-month period and the SO₂ emission rate of 0.5 lb/MMBTU, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
 - Emission Limitation-
8.03 lbs SO₂/hr (0.5 lb SO₂/MMBTU)
 - Applicable Compliance Method-
Compliance shall be based upon the analytical results of each shipment of oil, using the equation contained in OAC rule 3745-18-04(F)(2) to calculate the actual emission rate . Or, if required, the permittee shall demonstrate compliance with the above emissions limit in accordance with Method 6, 40 CFR Part 60, Appendix A. (As long as compliance with the limit of 0.5 lb SO₂/MMBTU is maintained, compliance with the limit of 7.68 lbs SO₂/hr is also maintained since these two limits are equivalent.)
 - Emission Limitation-
3.6 lbs PM/hr (0.25 lb PM/MMBTU)
 - Applicable Compliance Method-
Multiply the PM emissions factor from the 5th Edition of AP-42, Table 1.3-2 (2 lbs PM/1000 gallons of #2 fuel oil) by the actual maximum hourly #2 diesel fuel oil consumption rate. Or, if required, the permittee shall demonstrate compliance with the above emissions limit in accordance with Method 5, 40 CFR Part 60, Appendix A. (As long as compliance with the limit of 3.8 lbs PM/hr is maintained, compliance with the limit of 0.25 lb PM/MMBTU is also maintained since these two limits are equivalent.)
 - Emission Limitation-
58.2 lbs NO_x/hr
 - Applicable Compliance Method-
Multiply the NO_x emissions factor from the 5th Edition of AP-42, Table 1.3-2 (20 lbs NO_x/1000 gallons of #2 fuel oil) by the actual maximum hourly #2 fuel oil consumption rate. Or, if required, the permittee shall demonstrate compliance with the above emissions limit in accordance with Method 7, 40 CFR Part 60, Appendix A.
 - Emission Limitation-
12.2 lbs CO/hr
 - Applicable Compliance Method-
Multiply the CO emissions factor from the 5th Edition of AP-42, Table 1.3-2 (5 lbs CO/1000 gallons of #2 fuel oil) by the actual maximum hourly #2 fuel oil consumption rate. Or, if required, the permittee shall demonstrate compliance with the above emissions limit in accordance with Method 10, 40 CFR Part 60, Appendix A.
 - Emission Limitation-
1.0 lb VOC/hr
 - Applicable Compliance Method-
Multiply the VOC emissions from the 5th Edition of AP-42, Table 1.3-4 (0.2 lb VOC/1000 gallons of #2 fuel oil) by the actual maximum hourly #2 fuel oil consumption rate. Or, if required, the permittee shall demonstrate compliance with the above emissions limit in accordance with Method 25A, 40 CFR Part 60, Appendix A.
 - Emission Limitations-
5% opacity as a 6-minute average
20% opacity as a 6-minute average
 - Applicable Compliance Method-
OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

1. None

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Facility ID: 0387020323 Emissions Unit ID: P004 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>
BG-4, Diesel Generator Omega JV-5	PTI # 03-8009	3.6 lbs PM/hr (0.25 lb PM/MMBTU)
		8.03 lbs SO2/hr (0.5 lb SO2/MMBTU)
		58.2 lbs NOx/hr
		1.0 lb VOC/hr
		12.2 lbs CO/hr
		See AT&C 2.a
		Best available technology (see AT&C 2.b)
		0.25 lb PM/MMBTU
	3745-17-11	0.5 lb SO2/MMBTU
	3745-18-06	*
	3745-23-06	*
	3745-21-07	*
	3745-21-08	*
	3745-17-07	

2. Additional Terms and Conditions

- (a) Visible particulate emissions shall not exceed 5% opacity as a six-minute average except for a one hour period during the startup of the engine. Visible particulate emissions during this one hour period shall not exceed 20% opacity as a six-minute average. The permittee shall employ only #2 diesel fuel oil in this emissions unit.

* The emissions limit based on this applicable rule is less stringent than the PTI limit above.

B. Operational Restrictions

- 1. The permittee shall not operate this emissions unit more than 750 hours per rolling, 12-month period. Also, the permittee shall not burn more than 93,525 gallons of #2 diesel fuel oil per rolling, 12-month period.
- 2. This permittee shall burn not more than a maximum of 124.7 gallons of #2 diesel fuel oil per hour in this emissions unit. (This emissions unit has a maximum output rating of 1800 Kw and a maximum heat input of 16.06 MMBTU/hr.)
- 3. The quality of the diesel fuel oil burned in this emissions unit shall meet a sulfur content, which is sufficient to comply with the allowable sulfur dioxide emission limitation of 8.03 lbs/hr, on an as-received basis.

C. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall maintain monthly records which list the following information for this emissions unit:
 - a. the total gallons of fuel consumed for that month and the previous 11-month period; and
 - b. the total hours of operation for that month and the previous 11-month period.
- 2. This engine shall be equipped with a timer which allows the hours of operation to be tracked.
- 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, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated SO2 emissions rate in lb/MMBTU.

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 and heat content 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 appropriate Ohio EPA District Office or local air agency.

D. Reporting Requirements

- 1. The permittee shall submit annual deviation (excursion) reports which identify all exceedances of the allowables of 750 hours of operation per rolling, 12-month period, the 93,525 gallons of #2 diesel fuel oil burned per rolling, 12-month period and the SO2 emission rate of 0.5 lb/MMBTU, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

E. Testing Requirements

- 1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
Emission Limitation-
8.03 lbs SO2/hr (0.5 lb SO2/MMBTU)

Applicable Compliance Method-
Compliance shall be based upon the analytical results of each shipment of oil, using the equation contained in OAC rule 3745-18-04(F)(2) to calculate the actual emission rate . Or, if required, the permittee shall

demonstrate compliance with the above emissions limit in accordance with Method 6, 40 CFR Part 60, Appendix A. (As long as compliance with the limit of 0.5 lb SO₂/MMBTU is maintained, compliance with the limit of 7.68 lbs SO₂/hr is also maintained since these two limits are equivalent.)

Emission Limitation-
3.6 lbs PM/hr (0.25 lb PM/MMBTU)

Applicable Compliance Method-

Multiply the PM emissions factor from the 5th Edition of AP-42, Table 1.3-2 (2 lbs PM/1000 gallons of #2 fuel oil) by the actual maximum hourly #2 diesel fuel oil consumption rate. Or, if required, the permittee shall demonstrate compliance with the above emissions limit in accordance with Method 5, 40 CFR Part 60, Appendix A. (As long as compliance with the limit of 3.8 lbs PM/hr is maintained, compliance with the limit of 0.25 lb PM/MMBTU is also maintained since these two limits are equivalent.)

Emission Limitation-
58.2 lbs NO_x/hr

Applicable Compliance Method-

Multiply the NO_x emissions factor from the 5th Edition of AP-42, Table 1.3-2 (20 lbs NO_x/1000 gallons of #2 fuel oil) by the actual maximum hourly #2 fuel oil consumption rate. Or, if required, the permittee shall demonstrate compliance with the above emissions limit in accordance with Method 7, 40 CFR Part 60, Appendix A.

Emission Limitation-
12.2 lbs CO/hr

Applicable Compliance Method-

Multiply the CO emissions factor from the 5th Edition of AP-42, Table 1.3-2 (5 lbs CO/1000 gallons of #2 fuel oil) by the actual maximum hourly #2 fuel oil consumption rate. Or, if required, the permittee shall demonstrate compliance with the above emissions limit in accordance with Method 10, 40 CFR Part 60, Appendix A.

Emission Limitation-
1.0 lb VOC/hr

Applicable Compliance Method-

Multiply the VOC emissions from the 5th Edition of AP-42, Table 1.3-4 (0.2 lb VOC/1000 gallons of #2 fuel oil) by the actual maximum hourly #2 fuel oil consumption rate. Or, if required, the permittee shall demonstrate compliance with the above emissions limit in accordance with Method 25A, 40 CFR Part 60, Appendix A.

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

Applicable Compliance Method-
OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

1. None

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

Facility ID: 0387020323 Emissions Unit ID: P005 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>
BG-5, Diesel Generator Omega JV-5	PTI # 03-8009	3.6 lbs PM/hr (0.25 lb PM/MMBTU)
		8.03 lbs SO ₂ /hr (0.5 lb SO ₂ /MMBTU)
		58.2 lbs NO _x /hr

1.0 lb VOC/hr

12.2 lbs CO/hr

See AT&C 2.a

Best available technology (see AT&C 2.b)

3745-17-11
 3745-18-06
 3745-23-06
 3745-21-07
 3745-21-08
 3745-17-07

0.25 lb PM/MMBTU
 0.5 lb SO2/MMBTU
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2. Additional Terms and Conditions

- (a) Visible particulate emissions shall not exceed 5% opacity as a six-minute average except for a one hour period during the startup of the engine. Visible particulate emissions during this one hour period shall not exceed 20% opacity as a six-minute average.
 The permittee shall employ only #2 diesel fuel oil in this emissions unit.

* The emissions limit based on this applicable rule is less stringent than the PTI limit above.

B. Operational Restrictions

- 1. The permittee shall not operate this emissions unit more than 750 hours per rolling, 12-month period. Also, the permittee shall not burn more than 93,525 gallons of #2 diesel fuel oil per rolling, 12-month period.
- 2. This permittee shall burn not more than a maximum of 124.7 gallons of #2 diesel fuel oil per hour in this emissions unit. (This emissions unit has a maximum output rating of 1800 Kw and a maximum heat input of 16.06 MMBTU/hr.)
- 3. The quality of the diesel fuel oil burned in this emissions unit shall meet a sulfur content, which is sufficient to comply with the allowable sulfur dioxide emission limitation of 8.03 lbs/hr, on an as-received basis.

C. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall maintain monthly records which list the following information for this emissions unit:
 - a. the total gallons of fuel consumed for that month and the previous 11-month period; and
 - b. the total hours of operation for that month and the previous 11-month period.
- 2. This engine shall be equipped with a timer which allows the hours of operation to be tracked.
- 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, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated SO2 emissions rate in lb/MMBTU.

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 and heat content 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 appropriate Ohio EPA District Office or local air agency.

D. Reporting Requirements

- 1. The permittee shall submit annual deviation (excursion) reports which identify all exceedances of the allowables of 750 hours of operation per rolling, 12-month period, the 93,525 gallons of #2 diesel fuel oil burned per rolling, 12-month period and the SO2 emission rate of 0.5 lb/MMBTU, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

E. Testing Requirements

- 1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
 Emission Limitation-
 8.03 lbs SO2/hr (0.5 lb SO2/MMBTU)

 Applicable Compliance Method-
 Compliance shall be based upon the analytical results of each shipment of oil, using the equation contained in OAC rule 3745-18-04(F)(2) to calculate the actual emission rate . Or, if required, the permittee shall demonstrate compliance with the above emissions limit in accordance with Method 6, 40 CFR Part 60, Appendix A. (As long as compliance with the limit of 0.5 lb SO2/MMBTU is maintained, compliance with the limit of 7.68 lbs SO2/hr is also maintained since these two limits are equivalent.)
 Emission Limitation-
 3.6 lbs PM/hr (0.25 lb PM/MMBTU)

 Applicable Compliance Method-
 Multiply the PM emissions factor from the 5th Edition of AP-42, Table 1.3-2 (2 lbs PM/1000 gallons of #2 fuel oil) by the actual maximum hourly #2 diesel fuel oil consumption rate. Or, if required, the permittee shall demonstrate compliance with the above emissions limit in accordance with Method 5, 40 CFR Part 60, Appendix A. (As long as compliance with the limit of 3.8 lbs PM/hr is maintained, compliance with the limit of 0.25 lb PM/MMBTU is also maintained since these two limits are equivalent.)

Emission Limitation-
58.2 lbs NOx/hr

Applicable Compliance Method-

Multiply the NOx emissions factor from the 5th Edition of AP-42, Table 1.3-2 (20 lbs NOx/1000 gallons of #2 fuel oil) by the actual maximum hourly #2 fuel oil consumption rate. Or, if required, the permittee shall demonstrate compliance with the above emissions limit in accordance with Method 7, 40 CFR Part 60, Appendix A.

Emission Limitation-
12.2 lbs CO/hr

Applicable Compliance Method-

Multiply the CO emissions factor from the 5th Edition of AP-42, Table 1.3-2 (5 lbs CO/1000 gallons of #2 fuel oil) by the actual maximum hourly #2 fuel oil consumption rate. Or, if required, the permittee shall demonstrate compliance with the above emissions limit in accordance with Method 10, 40 CFR Part 60, Appendix A.

Emission Limitation-
1.0 lb VOC/hr

Applicable Compliance Method-

Multiply the VOC emissions factor from the 5th Edition of AP-42, Table 1.3-4 (0.2 lb VOC/1000 gallons of #2 fuel oil) by the actual maximum hourly #2 fuel oil consumption rate. Or, if required, the permittee shall demonstrate compliance with the above emissions limit in accordance with Method 25A, 40 CFR Part 60, Appendix A.

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

Applicable Compliance Method-
OAC rule 3745-17-03(B)(1).

F. **Miscellaneous Requirements**

1. None