

Facility ID: 1318251604 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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[Go to Part II for Emissions Unit P020](#)

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Facility ID: 1318251604 Emissions Unit ID: P019 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>
P019 - 820kw, 8.04 MM BTU/hr, natural gas fired, engine driven, electric power generator with lean burn technology engine.	OAC rule 3745-31-05(A)(3) (PTI 13-03610 issued 1/14/03)	5.17 lbs NOx/hr
		22.65 TPY NOx
		4.76 lbs CO/hr
		20.85 TPY CO
		11.11 lbs OC/hr
		48.67 TPY OC
		2.49 lb/hr PE
		10.91 TPY PE
	OAC rule 3745-17-07(A)(1)	Visible emissions limit; see II.A.2.a.
	OAC rule 3745-17-11(B)(5)(a)	0.310 lb PE/MMBTU

2. Additional Terms and Conditions

- (a) Visible particulate emissions from this stack shall not exceed twenty percent (20%) opacity as a six minute average, except that they may exceed twenty percent (20%) opacity, as a six minute average, for not more than six consecutive minutes in any sixty minute period, but shall not exceed sixty percent (60%) opacity, as a six minute average, at any time.
This emissions unit shall be limited to burning only natural gas.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain annual records of the amount of natural gas burned in this emissions unit.
2. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

E. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 3 months after issuance of the permit and within 6 months prior to permit renewal.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable concentration of particulates, NOx, VOCs and CO in the exhaust stream.

- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

Methods 1-4 and for
 PE: Method 5 (40 CFR Part 60, Appendix A)
 NOX: Method 7 or 7E (40 CFR Part 60, Appendix A)
 CO: Method 10B (40 CFR Part 60, Appendix A)
 VOC: Methods 18, 25, or 25A (40 CFR Part 60, Appendix A)

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Cleveland Division of Air Quality (CDAQ).
2. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the CDAQ. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the CDAQ's refusal to accept the results of the emission test(s).

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

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

3. Compliance with the emission limitation(s) in section A of these terms and conditions shall be determined in accord with the following method(s):

- a. Emission Limitation(s)
 5.17 lbs NOx/hr

Applicable Compliance Method

The permittee shall demonstrate compliance with the hourly emission limitation by testing of the exhaust gases using methods 1-4 and method 7 or 7e of 40 CFR, Part 60, Appendix A.

- Emission Limitation(s)
 22.65 TPY NOx

Applicable Compliance Method

The annual limitation was developed by multiplying the pound per hour limitation by the maximum operating schedule of 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation(s)
 4.76 lbs CO/hr

Applicable Compliance Method -

Emission test shall be performed in accordance with 40 CFR Part 60, Appendix A, Method 10B. No emission testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04 (A).

- Emission Limitation(s)
 20.85 TPY CO

Applicable Compliance Method

The annual limitation was developed by multiplying the pound per hour limitation by the maximum operating schedule of 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation(s)
 11.11 lbs OC/hr

Applicable Compliance Method

U.S. EPA Method 25 in 40 CFR Part 60, Appendix A, shall be used to determine the VOC concentrations, if the VOC concentrations as carbon in the outlet are 50 ppm or greater; or U.S. EPA Method 25A in 40 CFR Part 60, Appendix A, shall be used to determine the VOC concentrations, if the VOC concentrations as carbon in the outlet are less than 50 ppm [to convert ppm into mass emissions pursuant to OAC rule 3745-21-10(C)(7)]; and

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- Emission Limitation(s)
 48.67 TPY OC

Applicable Compliance Method

The annual limitation was developed by multiplying the pound per hour limitation by the maximum operating schedule of 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- d. Emission Limitation(s)
 2.49 lb/hr PE

Compliance Method

Multiply the emission factor 0.31 lb/MMft³ (from SCC 2-01-002-02) by the capacity rating 8.04 MMBtu/hr and divide by natural gas heat content of 911 Btu/ft³.

Emission limitation
0.310 lb PE/MM BTU

Compliance Method
Divide the emission factor 0.31 lb/MMft³ (from SCC 2-01-002-02) by the natural gas heat content of 911 Btu/ft³.

Emission Limitation(s)
10.91 TPY PE

Applicable Compliance Method
The annual limitation was developed by multiplying the pound per hour limitation by the maximum operating schedule of 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

e. Emission Limitation:
20% opacity as a six-minute average.

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

F. Miscellaneous Requirements

- 1. None

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Facility ID: 1318251604 Emissions Unit ID: P020 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>
P020 - 820kw, 8.04 MM BTU/hr, natural gas fired, engine driven, electric power generator with lean burn technology engine.	OAC rule 3745-31-05(A)(3)	5.17 lbs NOx/hr
	(PTI 13-03610 issued 1/14/03)	22.65 TPY NOx
		4.76 lbs CO/hr
		20.85 TPY CO
		11.11 lbs OC/hr
		48.67 TPY OC
		2.49 lb/hr PE
		10.91 TPY PE
	OAC rule 3745-17-07(A)(1)	Visible emissions limit; see II.A.2.a.
	OAC rule 3745-17-11(B)(5)(a)	0.310 lb PE/MMBTU

2. Additional Terms and Conditions

- (a) Visible particulate emissions from this stack shall not exceed twenty percent (20%) opacity as a six minute average, except that they may exceed twenty percent (20%) opacity, as a six minute average, for not more than six consecutive minutes in any sixty minute period, but shall not exceed sixty percent (60%) opacity, as a six minute average, at any time.
This emissions unit shall be limited to burning only natural gas.

B. Operational Restrictions

1. None
- C. Monitoring and/or Record Keeping Requirements**
1. The permittee shall maintain annual records of the amount of natural gas burned in this emissions unit.
 2. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- D. Reporting Requirements**
1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
- E. Testing Requirements**
1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 3 months after issuance of the permit and within 6 months prior to permit renewal.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable concentration of particulates, NOX, VOCs and CO in the exhaust stream.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

Methods 1-4 and for
 PE: Method 5 (40 CFR Part 60, Appendix A)
 NOX: Method 7 or 7E (40 CFR Part 60, Appendix A)
 CO: Method 10B (40 CFR Part 60, Appendix A)
 VOC: Methods 18, 25, or 25A (40 CFR Part 60, Appendix A)

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Cleveland Division of Air Quality (CDAQ).
 2. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the CDAQ. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the CDAQ's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the CDAQ within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the CDAQ.
 3. Compliance with the emission limitation(s) in section A of these terms and conditions shall be determined in accord with the following method(s):
 - a. Emission Limitation(s)
5.17 lbs NOx/hr

Applicable Compliance Method
The permittee shall demonstrate compliance with the hourly emission limitation by testing of the exhaust gases using methods 1-4 and method 7 or 7e of 40 CFR, Part 60, Appendix A.

Emission Limitation(s)
22.65 TPY NOx

Applicable Compliance Method
The annual limitation was developed by multiplying the pound per hour limitation by the maximum operating schedule of 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.
 - b. Emission Limitation(s)
4.76 lbs CO/hr

Applicable Compliance Method -
Emission test shall be performed in accordance with 40 CFR Part 60, Appendix A, Method 10B. No emission testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04 (A).

Emission Limitation(s)
20.85 TPY CO

Applicable Compliance Method
The annual limitation was developed by multiplying the pound per hour limitation by the maximum operating schedule of 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

c. Emission Limitation(s)
11.11 lbs OC/hr

Applicable Compliance Method

U.S. EPA Method 25 in 40 CFR Part 60, Appendix A, shall be used to determine the VOC concentrations, if the VOC concentrations as carbon in the outlet are 50 ppm or greater; or U.S. EPA Method 25A in 40 CFR Part 60, Appendix A, shall be used to determine the VOC concentrations, if the VOC concentrations as carbon in the outlet are less than 50 ppm [to convert ppm into mass emissions pursuant to OAC rule 3745-21-10(C)(7)]; and

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

Emission Limitation(s)
48.67 TPY OC

Applicable Compliance Method

The annual limitation was developed by multiplying the pound per hour limitation by the maximum operating schedule of 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

d. Emission Limitation(s)
2.49 lb/hr PE

Compliance Method

Multiply the emission factor 0.31 lb/MMft³ (from SCC 2-01-002-02) by the capacity rating 8.04 MMBtu/hr and divide by natural gas heat content of 911 Btu/ft³.

Emission limitation
0.310 lb PE/MM BTU

Compliance Method

Divide the emission factor 0.31 lb/MMft³ (from SCC 2-01-002-02) by the natural gas heat content of 911 Btu/ft³.

Emission Limitation(s)
10.91 TPY PE

Applicable Compliance Method

The annual limitation was developed by multiplying the pound per hour limitation by the maximum operating schedule of 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

e. Emission Limitation:
20% opacity as a six-minute average.

Compliance Method

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

F. **Miscellaneous Requirements**

1. None