

Facility ID: 1677050163 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](#)

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Facility ID: 1677050163 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>
natural gas-fired, stationary small internal combustion engine (maximum rated heat input 0.49 million Btu/hr) driving a natural gas compressor	OAC rule 3745-31-05(A)(3) (PTI 16-1636)	1.6 lbs/hr of nitrogen oxides (NOx)
		0.6 lb/hr of total organic compounds (OC)
		0.2 lb/hr of carbon monoxide (CO)
	OAC rule 3745-17-07	Visible particulate emissions (PE) from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11	0.310 lb PE/mmBtu actual heat input

2. Additional Terms and Conditions

- (a) Based upon application data, the above PE, CO, total OC, and NOx emission limitations (regulated under OAC rules 3745-31-05 and 3745-17-11) are equal to or greater than the potential to emit for this emissions unit, as demonstrated below in Section E "Testing Requirements". Therefore, no recordkeeping, reporting, nor emissions calculations are required to demonstrate compliance with these emission limitations.

B. Operational Restrictions

1. This emissions unit shall be limited to only natural gas as fuel.

C. Monitoring and/or Record Keeping Requirements

1. None

D. Reporting Requirements

1. None

E. Testing Requirements

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

Emission Limitation:
20% opacity as a 6-minute average

Applicable Compliance Method:
Compliance shall be determined by visible PE evaluations performed using the procedures specified in USEPA Method 9.

Emission Limitation:
0.310 lb PE/mmBtu actual heat input

Applicable Compliance Method:
The permittee shall demonstrate compliance with the above limitation based on the potential to emit as determined from the AP-42, 5th edition, Table 3.2-4 emission factor of 0.046 lb PE/mmBtu actual heat input.

Emission Limitations:
1.6 lbs/hr of NOx

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limitations based upon the calculation of hourly potential NOx emissions specified below:

$$PTEh = (Hlmax) \times (EF)$$

where:

PTEh = 1.6 lbs/hr of NOx (hourly potential to emit);
 Hlmax = 0.49 mmBtu/hr (maximum rated heat input); and
 EF = 3.2 lbs of NOx/mmBtu heat input

[Note: the above NOx emission factor, EF, is taken from AP-42, updated 10/96, Table 3.2-1, SCC 2-02-002-54.]
 Emission Limitations:
 0.6 lb/hr of total OC

Applicable Compliance Method: The permittee shall demonstrate compliance with the above limitations based upon the calculation of hourly potential total OC emissions specified below:

$$PTEh = (Hlmax) \times (EF)$$

where:

PTEh = 0.6 lb/hr of total OC (hourly potential to emit);
 Hlmax = 0.49 mmBtu/hr (maximum rated heat input); and
 EF = 1.3 lbs of total OC/mmBtu heat input

[Note: the above total OC emission factor, EF, is taken from AP-42, updated 10/96, Table 3.2-1, SCC 2-02-002-54.]
 Emission Limitations:
 0.2 lb/hr of CO

Applicable Compliance Method:
 The permittee shall demonstrate compliance with the above limitations based upon the calculation of hourly potential CO emissions specified below:

$$PTEh = (Hlmax) \times (EF)$$

where:

PTEh = 0.2 lb/hr of CO (hourly potential to emit);
 Hlmax = 0.49 mmBtu/hr (maximum rated heat input); and
 EF = 0.42 lb of CO/mmBtu heat input

[Note: the above CO emission factor, EF, is taken from AP-42, updated 10/96, Table 3.2-1, SCC 2-02-002-54.]

F. Miscellaneous Requirements

1. None

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Facility ID: 1677050163 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>
natural gas-fired, stationary small internal combustion engine (maximum rated heat input 0.49 million Btu/hr) driving a natural	OAC rule 3745-31-05(A)(3) (PTI 16-1636)	1.6 lbs/hr of nitrogen oxides (NOx)
		0.6 lb/hr of total organic compounds (NOx)

gas compressor

OAC rule 3745-17-07

0.2 lb/hr of carbon monoxide (CO)

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

OAC rule 3745-17-11

0.310 lb PE/mmBtu actual heat input

2. **Additional Terms and Conditions**

- (a) Based upon application data, the above PE, CO, total OC, and NOx emission limitations (regulated under OAC rules 3745-31-05 and 3745-17-11) are equal to or greater than the potential to emit for this emissions unit, as demonstrated below in Section E "Testing Requirements". Therefore, no recordkeeping, reporting, nor emissions calculations are required to demonstrate compliance with these emission limitations.

B. **Operational Restrictions**

- 1. This emissions unit shall be limited to only natural gas as fuel.

C. **Monitoring and/or Record Keeping Requirements**

- 1. None

D. **Reporting Requirements**

- 1. None

E. **Testing Requirements**

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

Emission Limitation:
20% opacity as a 6-minute average

Applicable Compliance Method:
Compliance shall be determined by visiblePE evaluations performed using the procedures specified in USEPA Method 9.

Emission Limitation:
0.310 lb PE/mmBtu actual heat input

Applicable Compliance Method:
The permittee shall demonstrate compliance with the above limitation based on the potential to emit as determined from the AP-42, 5th edition, Table 3.2-4 emission factor of 0.046 lb PE/mmBtu actual heat input.

Emission Limitations:
1.6 lbs/hr of NOx

Applicable Compliance Method:
The permittee shall demonstrate compliance with the above limitations based upon the calculation of hourly potential NOx emissions specified below:

$$PTEh = (Hlmax) \times (EF)$$

where:

PTEh = 1.6 lbs/hr of NOx (hourly potential to emit);
Hlmax = 0.49 mmBtu/hr (maximum rated heat input); and
EF = 3.2 lbs of NOx/mmBtu heat input

[Note: the above NOx emission factor, EF, is taken from AP-42, updated 10/96, Table 3.2-1, SCC 2-02-002-54.]

Emission Limitations:
0.6 lb/hr of total OC

Applicable Compliance Method:
The permittee shall demonstrate compliance with the above limitations based upon the calculation of hourly potential total OC emissions specified below:

$$PTEh = (Hlmax) \times (EF)$$

where:

PTEh = 0.6 lb/hr of total OC (hourly potential to emit);
Hlmax = 0.49 mmBtu/hr (maximum rated heat input); and
EF = 1.3 lbs of total OC/mmBtu heat input

[Note: the above total OC emission factor, EF, is taken from AP-42, updated 10/96, Table 3.2-1, SCC 2-02-002-54.]

Emission Limitations:
0.2 lb/hr of CO

Applicable Compliance Method:
The permittee shall demonstrate compliance with the above limitations based upon the calculation of hourly potential CO emissions specified below:

$$PTEh = (Hlmax) \times (EF)$$

where:

PTEh = 0.2 lb/hr of carbon monoxide (hourly potential to emit);
Hlmax = 0.49 mmBtu/hr (maximum rated heat input); and

EF = 0.42 lb of carbon monoxide/mmBtu heat input

[Note: the above CO emission factor, EF, is taken from AP-42, updated 10/96, Table 3.2-1, SCC 2-02-002-54.]

F. **Miscellaneous Requirements**

1. None