

Facility ID: 0857040178 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 B036](#)
- [Go to Part II for Emissions Unit B037](#)
- [Go to Part II for Emissions Unit B038](#)
- [Go to Part II for Emissions Unit B039](#)
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Facility ID: 0857040178 Emissions Unit ID: B036 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>
17 mmBtu per hour natural gas boiler	OAC rule 3745-31-05 (PTI 08-3957)	0.020 pound of particulates per mmBtu ("lb/mmBtu") actual heat input
		1.49 ton per year ("TPY") of particulates
		0.14 lb/mmBtu actual heat input of nitrogen oxides ("NOx")
		10.42 TPY of NOx
		0.084 lb/mmBtu actual heat input of carbon monoxide ("CO")
		6.25 TPY of CO
		Visible particulate emissions shall not exceed 5% opacity, as a 6-minute average, except as provided by rule.
OAC rule 3745-35-07(B) (synthetic minor PTI 08-3957 to avoid Title V permit requirements)	18.0 tons per rolling, 12-months, of NOx emissions for emissions units B036, B037, B038, B039, and B040 combined.	
OAC rule 3745-17-10(B)	See 2.a below.	
OAC rule 3745-17-07(A)	See 2.b below.	
40 CFR Part 60, Subpart Dc	See 2.c below.	

2. **Additional Terms and Conditions**
  - (a) The emission limitations required by this applicable rule are equal to the emission limitations established by best available technology under OAC rule 3745-31-05. The emission limitations required by this applicable rule are less stringent than the emission limitations established by best available technology under OAC rule 3745-31-05. The NSPS regulation does not specify emissions limits for units burning only natural gas.

**B. Operational Restrictions**

1. This emissions unit shall be restricted to the use of natural gas at all times.
2. The maximum natural gas usage for emissions units B036, B037, B038, B039, and B040, combined, shall not exceed 257 million standard cubic feet ("mm scf") based on a rolling, 12-month, summation.
 

Compliance shall be demonstrated by summing the monthly amounts of gas used, as recorded in Section

C.1.b, for the preceding 12-month period.

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

1. The permittee shall maintain monthly records of the following information for emissions units B036, B037, B038, B039, and B040 combined:
  - a. the amount of natural gas used, in mm scf;
  - b. the rolling, 12-month summation of natural gas used, in mm scf;
  - c. the calculated emission rate of NO<sub>x</sub>, in tons, i.e., the AP-42, Section 1.4, Table 1.4-2, Emission Factor of 100 pounds of NO<sub>x</sub> per mm scf of natural gas combusted, multiplied by the number of mm scf of natural gas combusted as recorded in 1.a above, and then divided by 2000 pounds per ton; and
  - d. the combined rolling, 12-month summation of the NO<sub>x</sub> emission rates, in tons.

**D. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports to the RAPCA that identify each of the following:
  - a. any exceedance of the rolling, 12-month natural gas usage restriction of 257 million standard cubic feet;
  - b. any exceedance of the rolling, 12-month NO<sub>x</sub> emission limit of 18.0 tons; and

Deviation reports shall also include the probable cause of each exceedance reported above, as well as an explanation of any corrective actions or preventative measures which have been or will be taken.

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report which states that no deviations occurred during that quarter.

Quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.
2. The permittee shall submit an annual report that specifies the total combined natural gas usage, in mm scf, and NO<sub>x</sub> emissions, in tons, for emissions units B036, B037, B038, B039, and B040 combined, for the previous calendar year. These reports shall be submitted by January 31 of each year.

**E. Testing Requirements**

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

Emission Limitation:

0.020 lb/mmBtu actual heat input of particulates

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum hourly natural gas burn rate of the emissions unit (0.017 mm scf) by the AP-42, Section 1.4, Table 1.4-2, Emission Factor (1.9 lbs/mm scf of particulate) and then dividing by the maximum hourly heat input capacity of the emissions unit (17mmBtu per hour).

If required by Ohio EPA, the permittee shall demonstrate compliance with the above emission limit pursuant to OAC rule 3745-17-03(B)(9).

Emission Limitation:

1.49 TPY of particulate

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the 0.020 lb/mmBtu limitation by the maximum hourly heat input capacity of the emissions unit (17 mmBtu/hr) and the maximum operating schedule of 8,760 hours per year, and then dividing by 2000 pounds per ton.

Emission Limitation:

0.14 lb/mmBtu actual heat input of NO<sub>x</sub>

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum hourly natural gas burn rate of the emissions unit (0.017 mm scf) by the AP-42, Section 1.4, Table 1.4-1, Emission Factor (100 lbs NO<sub>x</sub>/mm scf), and then dividing by the maximum hourly heat input capacity of the emissions unit (17 mmBtu per hour).

If required by Ohio EPA, the permittee shall demonstrate compliance with the above emission limit pursuant to USEPA Test Method 7 or 7E of 40 CFR, Part 60, Appendix A.

Emission Limitation:

10.42 TPY of NO<sub>x</sub>

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the 0.14 lb/mmBtu limitation by the maximum hourly heat input capacity of the emissions unit (17 mmBtu per hour) and the maximum operating schedule of 8,760 hours per year, and then dividing by 2000 pounds per ton.

Emission Limitation:

18.0 tons per rolling, 12-months, of NO<sub>x</sub> emissions for emissions units B036, B037, B038, B039, and B040 combined

Applicable Compliance Method:

Compliance shall be demonstrated by summing the monthly NOx emissions, as recorded in Section C.1.d, for the preceding 12-month period.  
Emission Limitation:

0.084 lb/mmBtu actual heat input of CO

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum hourly natural gas burn rate of the emissions unit (0.017 mm scf) by the AP-42, Section 1.4, Table 1.4-1, Emission Factor (84 lbs/mm scf of CO), and then dividing by the maximum hourly heat input capacity of the emissions unit (17 mmBtu per hour).

If required by Ohio EPA, the permittee shall demonstrate compliance with the above emission limit pursuant to USEPA Test Method 10 of 40 CFR, Part 60, Appendix A.  
Emission Limitation:

6.25 TPY of CO

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the 0.084 lb/mmBtu limitation by the maximum hourly heat input capacity of the emissions unit (17 mmBtu per hour) and the maximum operating schedule of 8,760 hours per year, and then dividing by 2000 pounds per ton.  
Emission Limitation:

Visible particulate emissions shall not exceed 5% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

Compliance shall be demonstrated by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B) (1) using the methods and procedures specified in USEPA Reference Method 9.  
Emission Limitation:

The maximum natural gas usage in emissions units B036, B037, B038, B039, and B040, combined, shall not exceed 257 mm scf based on a rolling, 12-month, summation.

Applicable Compliance Method:

Compliance shall be demonstrated by summing the monthly amounts of gas used, as recorded in Section C.1.b, for the preceding 12-month period.

F. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0857040178 Emissions Unit ID: B037 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

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- 1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (a) None.
- 2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
  - (a) None.

A. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
17 mmBtu per hour natural gas boiler	OAC rule 3745-31-05 (PTI 08-3957)	0.020 pound of particulates per mmBtu ("lb/mmBtu") actual heat input
		1.49 ton per year ("TPY") of particulates

0.14 lb/mmBtu actual heat input of nitrogen oxides ("NOx")

10.42 TPY of NOx

0.084 lb/mmBtu actual heat input of carbon monoxide ("CO")

6.25 TPY of CO

Visible particulate emissions shall not exceed 5% opacity, as a 6-minute average, except as provided by rule.

OAC rule 3745-35-07(B) (synthetic minor PTI 08-3957 to avoid Title V permit requirements) 18.0 tons per rolling, 12-months, of NOx emissions for emissions units B036, B037, B038, B039, and B040 combined.

OAC rule 3745-17-10(B) See 2.a below.

OAC rule 3745-17-07(A) See 2.b below.

40 CFR Part 60, Subpart Dc See 2.c below.

**2. Additional Terms and Conditions**

- (a) The emission limitations required by this applicable rule are equal to the emission limitations established by best available technology under OAC rule 3745-31-05. The emission limitations required by this applicable rule are less stringent than the emission limitations established by best available technology under OAC rule 3745-31-05. The NSPS regulation does not specify emissions limits for units burning only natural gas.

**B. Operational Restrictions**

- 1. This emissions unit shall be restricted to the use of natural gas at all times.
- 2. The maximum natural gas usage for emissions units B036, B037, B038, B039, and B040, combined, shall not exceed 257 million standard cubic feet ("mm scf") based on a rolling, 12-month, summation.  
  
Compliance shall be demonstrated by summing the monthly amounts of gas used, as recorded in Section C.1.b, for the preceding 12-month period.

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

- 1. The permittee shall maintain monthly records of the following information for emissions units B036, B037, B038, B039, and B040 combined:
  - a. the amount of natural gas used, in mm scf;
  - b. the rolling, 12-month summation of natural gas used, in mm scf;
  - c. the calculated emission rate of NOx, in tons, i.e., the AP-42, Section 1.4, Table 1.4-2, Emission Factor of 100 pounds of NOx per mm scf of natural gas combusted, multiplied by the number of mm scf of natural gas combusted as recorded in 1.a above, and then divided by 2000 pounds per ton; and
  - d. the combined rolling, 12-month summation of the NOx emission rates, in tons.

**D. Reporting Requirements**

- 1. The permittee shall submit quarterly deviation (excursion) reports to the RAPCA that identify each of the following:
  - a. any exceedance of the rolling, 12-month natural gas usage restriction of 257 million standard cubic feet;
  - b. any exceedance of the rolling, 12-month NOx emission limit of 18.0 tons; and

Deviation reports shall also include the probable cause of each exceedance reported above, as well as an explanation of any corrective actions or preventative measures which have been or will be taken.

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report which states that no deviations occurred during that quarter.

Quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.
- 2. The permittee shall submit an annual report that specifies the total combined natural gas usage, in mm scf, and NOx emissions, in tons, for emissions units B036, B037, B038, B039, and B040 combined, for the previous calendar year. These reports shall be submitted by January 31 of each year.

**E. Testing Requirements**

- 1. Compliance with the emission limitations in Section A and the operational restrictions in Section B of these terms and conditions shall be demonstrated in accordance with the following methods:  
Emission Limitation:  
  
0.020 lb/mmBtu actual heat input of particulates  
  
Applicable Compliance Method:  
  
Compliance shall be demonstrated by multiplying the maximum hourly natural gas burn rate of the emissions unit (0.017 mm scf) by the AP-42, Section 1.4, Table 1.4-2, Emission Factor (1.9 lbs/mm scf of particulate) and

then dividing by the maximum hourly heat input capacity of the emissions unit (17mmBtu per hour).

If required by Ohio EPA, the permittee shall demonstrate compliance with the above emission limit pursuant to OAC rule 3745-17-03(B)(9).

Emission Limitation:

1.49 TPY of particulate

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the 0.020 lb/mmBtu limitation by the maximum hourly heat input capacity of the emissions unit (17 mmBtu/hr) and the maximum operating schedule of 8,760 hours per year, and then dividing by 2000 pounds per ton.

Emission Limitation:

0.14 lb/mmBtu actual heat input of NOx

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum hourly natural gas burn rate of the emissions unit (0.017 mm scf) by the AP-42, Section 1.4, Table 1.4-1, Emission Factor (100 lbs NOx/mm scf), and then dividing by the maximum hourly heat input capacity of the emissions unit (17 mmBtu per hour).

If required by Ohio EPA, the permittee shall demonstrate compliance with the above emission limit pursuant to USEPA Test Method 7 or 7E of 40 CFR, Part 60, Appendix A.

Emission Limitation:

10.42 TPY of NOx

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the 0.14 lb/mmBtu limitation by the maximum hourly heat input capacity of the emissions unit (17 mmBtu per hour) and the maximum operating schedule of 8,760 hours per year, and then dividing by 2000 pounds per ton.

Emission Limitation:

18.0 tons per rolling, 12-months, of NOx emissions for emissions units B036, B037, B038, B039, and B040 combined

Applicable Compliance Method:

Compliance shall be demonstrated by summing the monthly NOx emissions, as recorded in Section C.1.d, for the preceding 12-month period.

Emission Limitation:

0.084 lb/mmBtu actual heat input of CO

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum hourly natural gas burn rate of the emissions unit (0.017 mm scf) by the AP-42, Section 1.4, Table 1.4-1, Emission Factor (84 lbs/mm scf of CO), and then dividing by the maximum hourly heat input capacity of the emissions unit (17 mmBtu per hour).

If required by Ohio EPA, the permittee shall demonstrate compliance with the above emission limit pursuant to USEPA Test Method 10 of 40 CFR, Part 60, Appendix A.

Emission Limitation:

6.25 TPY of CO

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the 0.084 lb/mmBtu limitation by the maximum hourly heat input capacity of the emissions unit (17 mmBtu per hour) and the maximum operating schedule of 8,760 hours per year, and then dividing by 2000 pounds per ton.

Emission Limitation:

Visible particulate emissions shall not exceed 5% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

Compliance shall be demonstrated by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B) (1) using the methods and procedures specified in USEPA Reference Method 9.

Emission Limitation:

The maximum natural gas usage in emissions units B036, B037, B038, B039, and B040, combined, shall not exceed 257 mm scf based on a rolling, 12-month, summation.

Applicable Compliance Method:

Compliance shall be demonstrated by summing the monthly amounts of gas used, as recorded in Section C.1.b, for the preceding 12-month period.

**F. Miscellaneous Requirements**

1. None

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Facility ID: 0857040178 Emissions Unit ID: B038 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>
17 mmBtu per hour natural gas boiler	OAC rule 3745-31-05 (PTI 08-3957)	0.020 pound of particulates per mmBtu ("lb/mmBtu") actual heat input  1.49 ton per year ("TPY") of particulates  0.14 lb/mmBtu actual heat input of nitrogen oxides ("NOx")  10.42 TPY of NOx  0.084 lb/mmBtu actual heat input of carbon monoxide ("CO")  6.25 TPY of CO  Visible particulate emissions shall not exceed 5% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-35-07(B) (synthetic minor PTI 08-3957 to avoid Title V permit requirements)	18.0 tons per rolling, 12-months, of NOx emissions for emissions units B036, B037, B038, B039, and B040 combined.
	OAC rule 3745-17-10(B)	See 2.a below.
	OAC rule 3745-17-07(A)	See 2.b below.
	40 CFR Part 60, Subpart Dc	See 2.c below.

2. **Additional Terms and Conditions**
  - (a) The emission limitations required by this applicable rule are equal to the emission limitations established by best available technology under OAC rule 3745-31-05. The emission limitations required by this applicable rule are less stringent than the emission limitations established by best available technology under OAC rule 3745-31-05. The NSPS regulation does not specify emissions limits for units burning only natural gas.

**B. Operational Restrictions**

1. This emissions unit shall be restricted to the use of natural gas at all times.
2. The maximum natural gas usage for emissions units B036, B037, B038, B039, and B040, combined, shall not exceed 257 million standard cubic feet ("mm scf") based on a rolling, 12-month, summation.  
  
Compliance shall be demonstrated by summing the monthly amounts of gas used, as recorded in Section C.1.b, for the preceding 12-month period.

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

1. The permittee shall maintain monthly records of the following information for emissions units B036, B037, B038, B039, and B040 combined:
  - a. the amount of natural gas used, in mm scf;
  - b. the rolling, 12-month summation of natural gas used, in mm scf;

c. the calculated emission rate of NO<sub>x</sub>, in tons, i.e., the AP-42, Section 1.4, Table 1.4-2, Emission Factor of 100 pounds of NO<sub>x</sub> per mm scf of natural gas combusted, multiplied by the number of mm scf of natural gas combusted as recorded in 1.a above, and then divided by 2000 pounds per ton; and

d. the combined rolling, 12-month summation of the NO<sub>x</sub> emission rates, in tons.

**D. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports to the RAPCA that identify each of the following:

- a. any exceedance of the rolling, 12-month natural gas usage restriction of 257 million standard cubic feet;
- b. any exceedance of the rolling, 12-month NO<sub>x</sub> emission limit of 18.0 tons; and

Deviation reports shall also include the probable cause of each exceedance reported above, as well as an explanation of any corrective actions or preventative measures which have been or will be taken.

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report which states that no deviations occurred during that quarter.

Quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.

2. The permittee shall submit an annual report that specifies the total combined natural gas usage, in mm scf, and NO<sub>x</sub> emissions, in tons, for emissions units B036, B037, B038, B039, and B040 combined, for the previous calendar year. These reports shall be submitted by January 31 of each year.

**E. Testing Requirements**

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

Emission Limitation:

0.020 lb/mmBtu actual heat input of particulates

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum hourly natural gas burn rate of the emissions unit (0.017 mm scf) by the AP-42, Section 1.4, Table 1.4-2, Emission Factor (1.9 lbs/mm scf of particulate) and then dividing by the maximum hourly heat input capacity of the emissions unit (17mmBtu per hour).

If required by Ohio EPA, the permittee shall demonstrate compliance with the above emission limit pursuant to OAC rule 3745-17-03(B)(9).

Emission Limitation:

1.49 TPY of particulate

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the 0.020 lb/mmBtu limitation by the maximum hourly heat input capacity of the emissions unit (17 mmBtu/hr) and the maximum operating schedule of 8,760 hours per year, and then dividing by 2000 pounds per ton.

Emission Limitation:

0.14 lb/mmBtu actual heat input of NO<sub>x</sub>

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum hourly natural gas burn rate of the emissions unit (0.017 mm scf) by the AP-42, Section 1.4, Table 1.4-1, Emission Factor (100 lbs NO<sub>x</sub>/mm scf), and then dividing by the maximum hourly heat input capacity of the emissions unit (17 mmBtu per hour).

If required by Ohio EPA, the permittee shall demonstrate compliance with the above emission limit pursuant to USEPA Test Method 7 or 7E of 40 CFR, Part 60, Appendix A.

Emission Limitation:

10.42 TPY of NO<sub>x</sub>

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the 0.14 lb/mmBtu limitation by the maximum hourly heat input capacity of the emissions unit (17 mmBtu per hour) and the maximum operating schedule of 8,760 hours per year, and then dividing by 2000 pounds per ton.

Emission Limitation:

18.0 tons per rolling, 12-months, of NO<sub>x</sub> emissions for emissions units B036, B037, B038, B039, and B040 combined

Applicable Compliance Method:

Compliance shall be demonstrated by summing the monthly NO<sub>x</sub> emissions, as recorded in Section C.1.d, for the preceding 12-month period.

Emission Limitation:

0.084 lb/mmBtu actual heat input of CO

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum hourly natural gas burn rate of the emissions unit (0.017 mm scf) by the AP-42, Section 1.4, Table 1.4-1, Emission Factor (84 lbs/mm scf of CO), and then dividing by the maximum hourly heat input capacity of the emissions unit (17 mmBtu per hour).

If required by Ohio EPA, the permittee shall demonstrate compliance with the above emission limit pursuant to USEPA Test Method 10 of 40 CFR, Part 60, Appendix A.  
Emission Limitation:

6.25 TPY of CO

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the 0.084 lb/mmBtu limitation by the maximum hourly heat input capacity of the emissions unit (17 mmBtu per hour) and the maximum operating schedule of 8,760 hours per year, and then dividing by 2000 pounds per ton.  
Emission Limitation:

Visible particulate emissions shall not exceed 5% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

Compliance shall be demonstrated by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B) (1) using the methods and procedures specified in USEPA Reference Method 9.  
Emission Limitation:

The maximum natural gas usage in emissions units B036, B037, B038, B039, and B040, combined, shall not exceed 257 mm scf based on a rolling, 12-month, summation.

Applicable Compliance Method:

Compliance shall be demonstrated by summing the monthly amounts of gas used, as recorded in Section C.1.b, for the preceding 12-month period.

**F. Miscellaneous Requirements**

- 1. None

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Facility ID: 0857040178 Emissions Unit ID: B039 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

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- 1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (a) None.
- 2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
  - (a) None.

**A. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
17 mmBtu per hour natural gas boiler	OAC rule 3745-31-05 (PTI 08-3957)	0.020 pound of particulates per mmBtu ("lb/mmBtu") actual heat input  1.49 ton per year ("TPY") of particulates  0.14 lb/mmBtu actual heat input of nitrogen oxides ("NOx")  10.42 TPY of NOx  0.084 lb/mmBtu actual heat input of carbon monoxide ("CO")

6.25 TPY of CO

Visible particulate emissions shall not exceed 5% opacity, as a 6-minute average, except as provided by rule.

OAC rule 3745-35-07(B)  
(synthetic minor PTI 08-3957 to avoid Title V permit requirements)

18.0 tons per rolling, 12-months, of NOx emissions for emissions units B036, B037, B038, B039, and B040 combined.

OAC rule 3745-17-10(B) See 2.a below.

OAC rule 3745-17-07(A) See 2.b below.

40 CFR Part 60, Subpart Dc See 2.c below.

**2. Additional Terms and Conditions**

- (a) The emission limitations required by this applicable rule are equal to the emission limitations established by best available technology under OAC rule 3745-31-05.  
The emission limitations required by this applicable rule are less stringent than the emission limitations established by best available technology under OAC rule 3745-31-05.  
The NSPS regulation does not specify emissions limits for units burning only natural gas.

**B. Operational Restrictions**

- 1. This emissions unit shall be restricted to the use of natural gas at all times.
- 2. The maximum natural gas usage for emissions units B036, B037, B038, B039, and B040, combined, shall not exceed 257 million standard cubic feet ("mm scf") based on a rolling, 12-month, summation.

Compliance shall be demonstrated by summing the monthly amounts of gas used, as recorded in Section C.1.b, for the preceding 12-month period.

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

- 1. The permittee shall maintain monthly records of the following information for emissions units B036, B037, B038, B039, and B040 combined:
  - a. the amount of natural gas used, in mm scf;
  - b. the rolling, 12-month summation of natural gas used, in mm scf;
  - c. the calculated emission rate of NOx, in tons, i.e., the AP-42, Section 1.4, Table 1.4-2, Emission Factor of 100 pounds of NOx per mm scf of natural gas combusted, multiplied by the number of mm scf of natural gas combusted as recorded in 1.a above, and then divided by 2000 pounds per ton; and
  - d. the combined rolling, 12-month summation of the NOx emission rates, in tons.

**D. Reporting Requirements**

- 1. The permittee shall submit quarterly deviation (excursion) reports to the RAPCA that identify each of the following:
  - a. any exceedance of the rolling, 12-month natural gas usage restriction of 257 million standard cubic feet;
  - b. any exceedance of the rolling, 12-month NOx emission limit of 18.0 tons; and

Deviation reports shall also include the probable cause of each exceedance reported above, as well as an explanation of any corrective actions or preventative measures which have been or will be taken.

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report which states that no deviations occurred during that quarter.

Quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.

- 2. The permittee shall submit an annual report that specifies the total combined natural gas usage, in mm scf, and NOx emissions, in tons, for emissions units B036, B037, B038, B039, and B040 combined, for the previous calendar year. These reports shall be submitted by January 31 of each year.

**E. Testing Requirements**

- 1. Compliance with the emission limitations in Section A and the operational restrictions in Section B of these terms and conditions shall be demonstrated in accordance with the following methods:  
Emission Limitation:

0.020 lb/mmBtu actual heat input of particulates

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum hourly natural gas burn rate of the emissions unit (0.017 mm scf) by the AP-42, Section 1.4, Table 1.4-2, Emission Factor (1.9 lbs/mm scf of particulate) and then dividing by the maximum hourly heat input capacity of the emissions unit (17mmBtu per hour).

If required by Ohio EPA, the permittee shall demonstrate compliance with the above emission limit pursuant to OAC rule 3745-17-03(B)(9).

Emission Limitation:

1.49 TPY of particulate

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the 0.020 lb/mmBtu limitation by the maximum hourly heat input capacity of the emissions unit (17 mmBtu/hr) and the maximum operating schedule of 8,760 hours per year, and then dividing by 2000 pounds per ton.

Emission Limitation:

0.14 lb/mmBtu actual heat input of NOx

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum hourly natural gas burn rate of the emissions unit (0.017 mm scf) by the AP-42, Section 1.4, Table 1.4-1, Emission Factor (100 lbs NOx/mm scf), and then dividing by the maximum hourly heat input capacity of the emissions unit (17 mmBtu per hour).

If required by Ohio EPA, the permittee shall demonstrate compliance with the above emission limit pursuant to USEPA Test Method 7 or 7E of 40 CFR, Part 60, Appendix A.

Emission Limitation:

10.42 TPY of NOx

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the 0.14 lb/mmBtu limitation by the maximum hourly heat input capacity of the emissions unit (17 mmBtu per hour) and the maximum operating schedule of 8,760 hours per year, and then dividing by 2000 pounds per ton.

Emission Limitation:

18.0 tons per rolling, 12-months, of NOx emissions for emissions units B036, B037, B038, B039, and B040 combined

Applicable Compliance Method:

Compliance shall be demonstrated by summing the monthly NOx emissions, as recorded in Section C.1.d, for the preceding 12-month period.

Emission Limitation:

0.084 lb/mmBtu actual heat input of CO

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum hourly natural gas burn rate of the emissions unit (0.017 mm scf) by the AP-42, Section 1.4, Table 1.4-1, Emission Factor (84 lbs/mm scf of CO), and then dividing by the maximum hourly heat input capacity of the emissions unit (17 mmBtu per hour).

If required by Ohio EPA, the permittee shall demonstrate compliance with the above emission limit pursuant to USEPA Test Method 10 of 40 CFR, Part 60, Appendix A.

Emission Limitation:

6.25 TPY of CO

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the 0.084 lb/mmBtu limitation by the maximum hourly heat input capacity of the emissions unit (17 mmBtu per hour) and the maximum operating schedule of 8,760 hours per year, and then dividing by 2000 pounds per ton.

Emission Limitation:

Visible particulate emissions shall not exceed 5% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

Compliance shall be demonstrated by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B) (1) using the methods and procedures specified in USEPA Reference Method 9.

Emission Limitation:

The maximum natural gas usage in emissions units B036, B037, B038, B039, and B040, combined, shall not exceed 257 mm scf based on a rolling, 12-month, summation.

Applicable Compliance Method:

Compliance shall be demonstrated by summing the monthly amounts of gas used, as recorded in Section C.1.b, for the preceding 12-month period.

**F. Miscellaneous Requirements**

1. None

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

Facility ID: 0857040178 Emissions Unit ID: B040 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>
17 mmBtu per hour natural gas boiler	OAC rule 3745-31-05 (PTI 08-3957)	0.020 pound of particulates per mmBtu ("lb/mmBtu") actual heat input  1.49 ton per year ("TPY") of particulates  0.14 lb/mmBtu actual heat input of nitrogen oxides ("NOx")  10.42 TPY of NOx  0.084 lb/mmBtu actual heat input of carbon monoxide ("CO")  6.25 TPY of CO  Visible particulate emissions shall not exceed 5% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-35-07(B) (synthetic minor PTI 08-3957 to avoid Title V permit requirements)	18.0 tons per rolling, 12-months, of NOx emissions for emissions units B036, B037, B038, B039, and B040 combined.
	OAC rule 3745-17-10(B)	See 2.a below.
	OAC rule 3745-17-07(A)	See 2.b below.
	40 CFR Part 60, Subpart Dc	See 2.c below.

**2. Additional Terms and Conditions**

- (a) The emission limitations required by this applicable rule are equal to the emission limitations established by best available technology under OAC rule 3745-31-05. The emission limitations required by this applicable rule are less stringent than the emission limitations established by best available technology under OAC rule 3745-31-05. The NSPS regulation does not specify emissions limits for units burning only natural gas.

**B. Operational Restrictions**

1. This emissions unit shall be restricted to the use of natural gas at all times.
2. The maximum natural gas usage for emissions units B036, B037, B038, B039, and B040, combined, shall not exceed 257 million standard cubic feet ("mm scf") based on a rolling, 12-month, summation.  
  
Compliance shall be demonstrated by summing the monthly amounts of gas used, as recorded in Section C.1.b, for the preceding 12-month period.

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

1. The permittee shall maintain monthly records of the following information for emissions units B036, B037, B038, B039, and B040 combined:
  - a. the amount of natural gas used, in mm scf;
  - b. the rolling, 12-month summation of natural gas used, in mm scf;
  - c. the calculated emission rate of NOx, in tons, i.e., the AP-42, Section 1.4, Table 1.4-2, Emission Factor of 100 pounds of NOx per mm scf of natural gas combusted, multiplied by the number of mm scf of natural gas combusted as recorded in 1.a above, and then divided by 2000 pounds per ton; and
  - d. the combined rolling, 12-month summation of the NOx emission rates, in tons.

**D. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports to the RAPCA that identify each of the following:

- a. any exceedance of the rolling, 12-month natural gas usage restriction of 257 million standard cubic feet;
- b. any exceedance of the rolling, 12-month NOx emission limit of 18.0 tons; and

Deviation reports shall also include the probable cause of each exceedance reported above, as well as an explanation of any corrective actions or preventative measures which have been or will be taken.

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report which states that no deviations occurred during that quarter.

Quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.

- 2. The permittee shall submit an annual report that specifies the total combined natural gas usage, in mm scf, and NOx emissions, in tons, for emissions units B036, B037, B038, B039, and B040 combined, for the previous calendar year. These reports shall be submitted by January 31 of each year.

**E. Testing Requirements**

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

Emission Limitation:

0.020 lb/mmBtu actual heat input of particulates

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum hourly natural gas burn rate of the emissions unit (0.017 mm scf) by the AP-42, Section 1.4, Table 1.4-2, Emission Factor (1.9 lbs/mm scf of particulate) and then dividing by the maximum hourly heat input capacity of the emissions unit (17mmBtu per hour).

If required by Ohio EPA, the permittee shall demonstrate compliance with the above emission limit pursuant to OAC rule 3745-17-03(B)(9).

Emission Limitation:

1.49 TPY of particulate

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the 0.020 lb/mmBtu limitation by the maximum hourly heat input capacity of the emissions unit (17 mmBtu/hr) and the maximum operating schedule of 8,760 hours per year, and then dividing by 2000 pounds per ton.

Emission Limitation:

0.14 lb/mmBtu actual heat input of NOx

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum hourly natural gas burn rate of the emissions unit (0.017 mm scf) by the AP-42, Section 1.4, Table 1.4-1, Emission Factor (100 lbs NOx/mm scf), and then dividing by the maximum hourly heat input capacity of the emissions unit (17 mmBtu per hour).

If required by Ohio EPA, the permittee shall demonstrate compliance with the above emission limit pursuant to USEPA Test Method 7 or 7E of 40 CFR, Part 60, Appendix A.

Emission Limitation:

10.42 TPY of NOx

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the 0.14 lb/mmBtu limitation by the maximum hourly heat input capacity of the emissions unit (17 mmBtu per hour) and the maximum operating schedule of 8,760 hours per year, and then dividing by 2000 pounds per ton.

Emission Limitation:

18.0 tons per rolling, 12-months, of NOx emissions for emissions units B036, B037, B038, B039, and B040 combined

Applicable Compliance Method:

Compliance shall be demonstrated by summing the monthly NOx emissions, as recorded in Section C.1.d, for the preceding 12-month period.

Emission Limitation:

0.084 lb/mmBtu actual heat input of CO

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum hourly natural gas burn rate of the emissions unit (0.017 mm scf) by the AP-42, Section 1.4, Table 1.4-1, Emission Factor (84 lbs/mm scf of CO), and then dividing by the maximum hourly heat input capacity of the emissions unit (17 mmBtu per hour).

If required by Ohio EPA, the permittee shall demonstrate compliance with the above emission limit pursuant to USEPA Test Method 10 of 40 CFR, Part 60, Appendix A.

Emission Limitation:

6.25 TPY of CO

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the 0.084 lb/mmBtu limitation by the maximum hourly heat input capacity of the emissions unit (17 mmBtu per hour) and the maximum operating schedule of 8,760 hours per year, and then dividing by 2000 pounds per ton.

Emission Limitation:

Visible particulate emissions shall not exceed 5% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

Compliance shall be demonstrated by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B) (1) using the methods and procedures specified in USEPA Reference Method 9.

Emission Limitation:

The maximum natural gas usage in emissions units B036, B037, B038, B039, and B040, combined, shall not exceed 257 mm scf based on a rolling, 12-month, summation.

Applicable Compliance Method:

Compliance shall be demonstrated by summing the monthly amounts of gas used, as recorded in Section C.1.b, for the preceding 12-month period.

F. **Miscellaneous Requirements**

1. None