

Facility ID: 0320010044 Issuance type: Title V Proposed Permit

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 III" and before "I. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

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

Facility ID: 0320010044 Issuance type: Title V Proposed Permit

Part II - Specific Facility Terms and Conditions

a State and Federally Enforceable Section

1. The following insignificant emission units are located at this facility:

Z001 - Preheater - 2 mmBtu/hr (PTI #: 03-13598 - removed)
Z002 - Comfort Heater - 1 mmBtu/hr (PTI #: 03-13598 - removed)

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within the identified Permit to Install for the emissions unit. Insignificant emissions units listed above that are not subject to specific permit to install requirements are subject to one or more applicable requirements contained in the federally-approved versions of OAC Chapters 3745-17, 3745-18, and/or 3745-21.

(Authority for term: OAC rule 3745-77-07(A)(13))

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

Facility ID: 0320010044 Issuance type: Title V Proposed Permit

b State Only Enforceable Section

1. None

[Go to Part III for Emissions Unit B001](#)
[Go to Part III for Emissions Unit B002](#)
[Go to Part III for Emissions Unit B003](#)

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

Facility ID: 0320010044 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 0320010044 Emissions Unit ID: B001 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. 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>
22 mmBtu/hr, natural gas-fired boiler - CUC boiler # 1	40 CFR Part 52.21 OAC rules 3745-31-(10-20) OAC rule 3745-31-05(C) (PTI 03-13598, issued August 7, 2001) OAC rule 3745-31-05(A)(3) (PTI 03-13598, issued August 7, 2001)	See the control requirements in section A.I.2.a. 6.96 tons nitrogen oxides (NOx) per rolling, 12-month period, for emissions units B001, B002, and B003, combined (See A.I.2.b.) The requirements of this rule also include compliance with the requirements of 40 CFR Part 52.21, 40 CFR Part 60, Subpart Dc and OAC rules 3745-31-(10-20), 3745-17-10(B), 3745-17-07(A), 3745-23-06(B), and 3745-21-08(B). 1.1 lbs NOx/hr, 4.82 tons NOx/yr 1.85 lbs carbon monoxide (CO)/hr, 8.1 tons CO/yr 0.44 lb particulate emissions (PE)/hr, 1.9 tons PE/yr 0.020 lb PE/mmBtu of actual heat input Visible PE shall not exceed 20% opacity as a six-minute average, except as provided by rule. See section A.I.2.d.
	OAC rule 3745-17-10(B) OAC rule 3745-17-07(A) OAC rule 3745-23-06(B) OAC rule 3745-21-08(B) 40 CFR 60.48c (g) NSPS Subpart Dc	See the record keeping requirements in section A.III.2.

2. Additional Terms and Conditions

- a. The permittee shall employ best available control technology (BACT) for this emissions unit. BACT has been determined to be the use of a control system that shall meet the following requirements for controlling NOx emissions:
 - (a)
 - i. the emissions unit shall be equipped with low NOx burners and flue gas recirculation; and
 - ii. the emissions unit shall emit NOx at a rate of no more than 50 lbs/mm cu. ft of natural gas burned.
 - b. In order to comply with the Prevention of Significant Deterioration (PSD) Significant Impact Increment for NOx, the permittee has requested federally enforceable restrictions to limit the potentials to emit for the emissions units contained in this permit by limiting the annual natural gas usage rate (see A.II.2).

The annual NOx emissions, for emissions units B001, B002, and B003, combined, shall not exceed 6.96 tons/yr, based upon a rolling, 12-month summation of the monthly NOx emission rates.
- c. All PE is assumed to be in the form of PM10.

- d. The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06 (B) and the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05 (A)(3) in Permit to Install 03-13598.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- e. OAC Chapter 3745-18 does not establish a sulfur dioxide emission limitation for this emissions unit because it employs only natural gas as fuel.

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.
[OAC rule 3745-77-07(A)(1) and PTI #: 03-13598]
2. The maximum annual natural gas usage rate, for emissions units B001, B002, and B003, combined, shall not exceed 278.4 mm cu. ft /yr, based upon a rolling, 12-month summation of the monthly natural gas usage rates.
[OAC rule 3745-77-07(A)(1) and PTI #: 03-13598]

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. Monitoring and/or Record Keeping Requirements

1. 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.
[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]
2. The permittee shall calculate and maintain monthly records of the following information for emissions units B001, B002, and B003, combined:
 - a. the quantity of natural gas combusted, in mm cu. ft;
 - b. the rolling, 12-month natural gas usage rate, in mm cu. ft;
 - c. the calculated NOx emission rate [i.e., the monthly natural usage rate, from section A.III.2.a above, multiplied by the emission factor determined from the most recent emission testing that demonstrated the emissions unit was in compliance), in tons; and
 - d. the rolling, 12-month NOx emission rate, in tons.
 [OAC rule 3745-77-07(C)(1), PTI #: 03-13598 and 40 CFR 60.48(g)]

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. 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.
[OAC 3745-77-07(C)(1) and PTI #: 03-13598]
2. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. all exceedances of the rolling, 12-month natural gas usage restriction of 278.4 mm cu. ft [for emissions units B001, B002, and B003, combined]; and
 - b. all exceedances of the rolling, 12-month NOx emission limitation of 6.96 tons [for emissions units B001, B002, and B003, combined].
 The permittee shall submit these reports in accordance with the General Terms and Conditions of this permit.
[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of the terms and conditions of this permit shall be determined in accordance with the following methods:
 - a. Emission Limitation:
1.1 lbs NOx/hr
50 lbs NOx/mm cu. ft of natural gas combusted

Applicable Compliance Method:
Compliance with the allowable lbs/mm cu. ft NOx emission limitation above may be demonstrated in accordance with the AP-42, Table 1.4-1 (revised 7/98) emission factor for natural gas for low NOx burners (50 lbs NOx /mm cu. ft).

Compliance with the hourly allowable NOx emission limitation may be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (mm cu. ft./hour) by the AP-42, Table 1.4-1 (revised 7/98) emission factor for natural gas for low NOx burners (50 lbs NOx /mm cu. ft).

If required, the permittee shall demonstrate compliance with the hourly and lbs/mm cu. ft allowable NOx emission limitations above in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 7.

[On November 27, 2001, the permittee conducted emission testing that demonstrated compliance with the allowable hourly NOx emission limitation of 1.1 lbs/hr (the calculated hourly NOx emission rate based on the results of the testing was 0.67 lb/hr)]

[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]
 - b. Emission Limitation:
1.85 lbs CO/hr

Applicable Compliance Method:
Compliance with the hourly allowable CO emission limitation may be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (mm cu. ft./hour) by the AP-42, Table 1.4-1 (revised 7/98) emission factor for natural gas of 84 lbs CO /mm cu. ft.

If required, the permittee shall demonstrate compliance the hourly allowable CO emission limitation above in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 10.

[On November 27, 2001, the permittee conducted emission testing that demonstrated compliance with the allowable hourly CO emission limitation of 1.85 lbs/hr (the calculated hourly CO emission rate based on the results of the testing was 0.35 lb/hr)]

[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]
 - c. Emission Limitations:
0.44 lb PE/hr
0.020 lb PE/mmBtu of actual heat input

Applicable Compliance Method:
Compliance with the hourly allowable PE limitation may be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (mm cu. ft/hour) by the AP-42, Table 1.4-2 (revised 7/98) emission factor for natural gas of 1.9 lbs PE/mm cu. ft.

Compliance with the lb/mmBtu allowable PE limitation may be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (mm cu. ft/hour) by the AP-42, Table 1.4-2 (revised 7/98) emission factor for natural gas of 1.9 lbs PE/mm cu. ft, and then dividing by the maximum heat input capacity of the emissions unit (mmBtu/hr).

If required, the permittee shall demonstrate compliance with the hourly and lb/mmBtu allowable PE limitations in accordance with 40 CFR, Part 60, Appendix A, Methods 1 through 5.

[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]
 - d. Emission Limitation:
Visible PE shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1).

[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]
 - e. Emission Limitation:
6.96 tons NOx per rolling, 12-month period, for emissions units B001, B002, and B003, combined

Applicable Compliance Method
Compliance shall be determined by the record keeping required in section A.III.2 of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]
 - f. Emission Limitations:

4.82 tons NOx/yr
 8.1 tons CO/yr
 1.9 tons PE/yr

Applicable Compliance Method:

The annual limitation for each pollutant above was developed by multiplying the hourly limitation for each pollutant by the maximum operating schedule of 8760 hrs/year, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation for each pollutant, compliance shall also be shown with the annual limitation for each pollutant.

[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]

g. Operational Restriction:
 278.4 mm cu. ft of natural gas/rolling, 12-month summation, for emissions units B001, B002, and B003, combined

Applicable Compliance Method

Compliance shall be determined by the record keeping required in section A.III.2 of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

1. None

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

Facility ID: 0320010044 Issuance type: Title V Proposed Permit

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

Facility ID: 0320010044 Emissions Unit ID: B001 Issuance type: Title V Proposed Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
2.	Additional Terms and Conditions		
1.	None		

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. **Operational Restrictions**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

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

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. **Reporting Requirements**

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. **Testing Requirements**

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

- 1. None

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

Facility ID: 0320010044 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 0320010044 Emissions Unit ID: B002 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **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>
22 mmBtu/hr, natural gas-fired boiler - CUC boiler # 2	40 CFR Part 52.21 OAC rules 3745-31-(10-20) OAC rule 3745-31-05(C) (PTI 03-13598, issued August 7, 2001) OAC rule 3745-31-05(A)(3) (PTI 03-13598, issued August 7, 2001)	See the control requirements in section A.I.2.a. 6.96 tons nitrogen oxides (NOx) per rolling, 12-month period, for emissions units B001, B002, and B003, combined (See A.I.2.b.) The requirements of this rule also include compliance with the requirements of 40 CFR Part 52.21, 40 CFR Part 60, Subpart Dc and OAC rules 3745-31-(10-20), 3745-17-10(B), 3745-17-07(A), 3745-23-06(B), and 3745-21-08(B). 1.1 lbs NOx/hr, 4.82 tons NOx/yr 1.85 lbs carbon monoxide (CO)/hr, 8.1 tons CO/yr 0.44 lb particulate emissions (PE)/hr, 1.9 tons PE/yr 0.020 lb PE/mmBtu of actual heat input Visible PE shall not exceed 20% opacity as a six-minute average, except as provided by rule. See section A.I.2.d.
	OAC rule 3745-17-10(B) OAC rule 3745-17-07(A) OAC rule 3745-23-06(B) OAC rule 3745-21-08(B) 40 CFR 60.48c (g) NSPS Subpart Dc	See the record keeping requirements in section A.III.2.

2. **Additional Terms and Conditions**

- a. The permittee shall employ best available control technology (BACT) for this emissions unit. BACT has been determined to be the use of a control system that shall meet the following requirements for controlling NOx emissions:
 - (a)
 - i. the emissions unit shall be equipped with low NOx burners and flue gas recirculation; and
 - ii. the emissions unit shall emit NOx at a rate of no more than 50 lbs/mm cu. ft of natural gas burned.

- b. In order to comply with the Prevention of Significant Deterioration (PSD) Significant Impact Increment for NOx, the permittee has requested federally enforceable restrictions to limit the potentials to emit for the emissions units contained in this permit by limiting the annual natural gas usage rate (see A.II.2).

The annual NOx emissions, for emissions units B001, B002, and B003, combined, shall not exceed 6.96 tons/yr, based upon a rolling, 12-month summation of the monthly NOx emission rates.

- c. All PE is assumed to be in the form of PM10.

- d. The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06 (B) and the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05 (A)(3) in Permit to Install 03-13598.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- e. OAC Chapter 3745-18 does not establish a sulfur dioxide emission limitation for this emissions unit because it employs only natural gas as fuel.

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.

[OAC rule 3745-77-07(A)(1) and PTI #: 03-13598]

2. The maximum annual natural gas usage rate, for emissions units B001, B002, and B003, combined, shall not exceed 278.4 mm cu. ft/yr, based upon a rolling, 12-month summation of the monthly natural gas usage rates.

[OAC rule 3745-77-07(A)(1) and PTI #: 03-13598]

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. Monitoring and/or Record Keeping Requirements

1. 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.

[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]

2. The permittee shall calculate and maintain monthly records of the following information for emissions units B001, B002, and B003, combined:

- a. the quantity of natural gas combusted, in mm cu. ft;
- b. the rolling, 12-month natural gas usage rate, in mm cu. ft;
- c. the calculated NOx emission rate [i.e., the monthly natural usage rate, from section A.III.2.a above, multiplied by the emission factor determined from the most recent emission testing that demonstrated the emissions unit was in compliance], in tons; and
- d. the rolling, 12-month NOx emission rate, in tons.

[OAC rule 3745-77-07(C)(1), PTI #: 03-13598 and 40 CFR 60.48(g)]

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. 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.

[OAC 3745-77-07(C)(1) and PTI #: 03-13598]

2. The permittee shall submit quarterly deviation (excursion) reports that identify the following:

- a. all exceedances of the rolling, 12-month natural gas usage restriction of 278.4 mm cu. ft [for emissions units B001, B002, and B003, combined]; and

b. all exceedances of the rolling, 12-month NOx emission limitation of 6.96 tons [for emissions units B001, B002, and B003, combined].

The permittee shall submit these reports in accordance with the General Terms and Conditions of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. **Testing Requirements**

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

a. Emission Limitation:

1.1 lbs NOx/hr
50 lbs NOx/mm cu. ft of natural gas combusted

Applicable Compliance Method:

Compliance with the allowable lbs/mm cu. ft NOx emission limitation above may be demonstrated in accordance with the AP-42, Table 1.4-1 (revised 7/98) emission factor for natural gas for low NOx burners (50 lbs NOx /mm cu. ft).

Compliance with the hourly allowable NOx emission limitation may be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (mm cu. ft./hour) by the AP-42, Table 1.4-1 (revised 7/98) emission factor for natural gas for low NOx burners (50 lbs NOx /mm cu. ft).

If required, the permittee shall demonstrate compliance with the hourly and lbs/mm cu. ft allowable NOx emission limitations above in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 7.

[On November 27, 2001, the permittee conducted emission testing that demonstrated compliance with the allowable hourly NOx emission limitation of 1.1 lbs/hr (the calculated hourly NOx emission rate based on the results of the testing was 0.67 lb/hr)]

[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]

b. Emission Limitation:

1.85 lbs CO/hr

Applicable Compliance Method:

Compliance with the hourly allowable CO emission limitation may be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (mm cu. ft./hour) by the AP-42, Table 1.4-1 (revised 7/98) emission factor for natural gas of 84 lbs CO /mm cu. ft.

If required, the permittee shall demonstrate compliance the hourly allowable CO emission limitation above in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 10.

[On November 27, 2001, the permittee conducted emission testing that demonstrated compliance with the allowable hourly CO emission limitation of 1.85 lbs/hr (the calculated hourly CO emission rate based on the results of the testing was 0.35 lb/hr)]

[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]

c. Emission Limitations:

0.44 lb PE/hr
0.020 lb PE/mmBtu of actual heat input

Applicable Compliance Method:

Compliance with the hourly allowable PE limitation may be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (mm cu. ft./hour) by the AP-42, Table 1.4-2 (revised 7/98) emission factor for natural gas of 1.9 lbs PE/mm cu. ft.

Compliance with the lb/mmBtu allowable PE limitation may be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (mm cu. ft./hour) by the AP-42, Table 1.4-2 (revised 7/98) emission factor for natural gas of 1.9 lbs PE/mm cu. ft, and then dividing by the maximum heat input capacity of the emissions unit (mmBtu/hr).

If required, the permittee shall demonstrate compliance with the hourly and lb/mmBtu allowable PE limitations in accordance with 40 CFR, Part 60, Appendix A, Methods 1 through 5.

[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]

d. Emission Limitation:

Visible PE shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1).

[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]

- e. Emission Limitation:
6.96 tons NOx per rolling, 12-month period, for emissions units B001, B002, and B003, combined

Applicable Compliance Method
Compliance shall be determined by the record keeping required in section A.III.2 of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]

- f. Emission Limitations:
4.82 tons NOx/yr
8.1 tons CO/yr
1.9 tons PE/yr

Applicable Compliance Method:
The annual limitation for each pollutant above was developed by multiplying the hourly limitation for each pollutant by the maximum operating schedule of 8760 hrs/year, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation for each pollutant, compliance shall also be shown with the annual limitation for each pollutant.

[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]

- g. Operational Restriction:
278.4 mm cu. ft of natural gas/rolling, 12-month summation, for emissions units B001, B002, and B003, combined

Applicable Compliance Method
Compliance shall be determined by the record keeping required in section A.III.2 of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

- 1. None

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

Facility ID: 0320010044 Issuance type: Title V Proposed Permit

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

Facility ID: 0320010044 Emissions Unit ID: B002 Issuance type: Title V Proposed Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **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>
2. Additional Terms and Conditions		
1. None		

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. **Operational Restrictions**

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

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

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. **Reporting Requirements**

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. **Testing Requirements**

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

- 1. None

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

Facility ID: 0320010044 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 0320010044 Emissions Unit ID: B003 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **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>
22 mmBtu/hr, natural gas-fired boiler - CUC boiler # 3	40 CFR Part 52.21 OAC rules 3745-31-(10-20) OAC rule 3745-31-05(C) (PTI 03-13598, issued August 7, 2001) OAC rule 3745-31-05(A)(3) (PTI 03-13598, issued August 7, 2001)	See the control requirements in section A.I.2.a. 6.96 tons nitrogen oxides (NOx) per rolling, 12-month period, for emissions units B001, B002, and B003, combined (See A.I.2.b.) The requirements of this rule also include compliance with the requirements of 40 CFR Part 52.21, 40 CFR Part 60, Subpart Dc and OAC rules 3745-31-(10-20), 3745-17-10(B), 3745-17-07(A), 3745-23-06(B), and 3745-21-08(B). 1.1 lbs NOx/hr, 4.82 tons NOx/yr 1.85 lbs carbon monoxide (CO)/hr, 8.1 tons CO/yr 0.44 lb particulate emissions (PE)/hr, 1.9 tons PE/yr 0.020 lb PE/mmBtu of actual heat input Visible PE shall not exceed 20% opacity as a six-minute average, except as provided by rule. See section A.I.2.d.
	OAC rule 3745-17-10(B) OAC rule 3745-17-07(A)	
	OAC rule 3745-23-06(B) OAC rule 3745-21-08(B)	

40 CFR 60.48c (g)
NSPS Subpart Dc

See the record keeping requirements in section A.III.2.

2. Additional Terms and Conditions

- a. The permittee shall employ best available control technology (BACT) for this emissions unit. BACT has been determined to be the use of a control system that shall meet the following requirements for controlling NOx emissions:
- (a)
- i. the emissions unit shall be equipped with low NOx burners and flue gas recirculation; and
 - ii. the emissions unit shall emit NOx at a rate of no more than 50 lbs/mm cu. ft of natural gas burned.
- b. In order to comply with the Prevention of Significant Deterioration (PSD) Significant Impact Increment for NOx, the permittee has requested federally enforceable restrictions to limit the potentials to emit for the emissions units contained in this permit by limiting the annual natural gas usage rate (see A.II.2).
- The annual NOx emissions, for emissions units B001, B002, and B003, combined, shall not exceed 6.96 tons/yr, based upon a rolling, 12-month summation of the monthly NOx emission rates.
- c. All PE is assumed to be in the form of PM10.
- d. The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06 (B) and the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05 (A)(3) in Permit to Install 03-13598.
- On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.
- e. OAC Chapter 3745-18 does not establish a sulfur dioxide emission limitation for this emissions unit because it employs only natural gas as fuel.

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.
[OAC rule 3745-77-07(A)(1) and PTI #: 03-13598]
2. The maximum annual natural gas usage rate, for emissions units B001, B002, and B003, combined, shall not exceed 278.4 mm cu. ft /yr, based upon a rolling, 12-month summation of the monthly natural gas usage rates.
[OAC rule 3745-77-07(A)(1) and PTI #: 03-13598]

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. Monitoring and/or Record Keeping Requirements

1. 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.
[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]
2. The permittee shall calculate and maintain monthly records of the following information for emissions units B001, B002, and B003, combined:
 - a. the quantity of natural gas combusted, in mm cu. ft;
 - b. the rolling, 12-month natural gas usage rate, in mm cu. ft;
 - c. the calculated NOx emission rate [i.e., the monthly natural usage rate, from section A.III.2.a above, multiplied by the emission factor determined from the most recent emission testing that demonstrated the emissions unit was in compliance], in tons; and
 - d. the rolling, 12-month NOx emission rate, in tons.

[OAC rule 3745-77-07(C)(1), PTI #: 03-13598 and 40 CFR 60.48(g)]

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. 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.

[OAC 3745-77-07(C)(1) and PTI #: 03-13598]

2. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. all exceedances of the rolling, 12-month natural gas usage restriction of 278.4 mm cu. ft [for emissions units B001, B002, and B003, combined]; and
 - b. all exceedances of the rolling, 12-month NOx emission limitation of 6.96 tons [for emissions units B001, B002, and B003, combined].

The permittee shall submit these reports in accordance with the General Terms and Conditions of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. Testing Requirements

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

- a. Emission Limitation:
 - 1.1 lbs NOx/hr
 - 50 lbs NOx/mm cu. ft of natural gas combusted

Applicable Compliance Method:

Compliance with the allowable lbs/mm cu. ft NOx emission limitation above may be demonstrated in accordance with the AP-42, Table 1.4-1 (revised 7/98) emission factor for natural gas for low NOx burners (50 lbs NOx /mm cu. ft).

Compliance with the hourly allowable NOx emission limitation may be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (mm cu. ft./hour) by the AP-42, Table 1.4-1 (revised 7/98) emission factor for natural gas for low NOx burners (50 lbs NOx /mm cu. ft).

If required, the permittee shall demonstrate compliance with the hourly and lbs/mm cu. ft allowable NOx emission limitations above in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 7.

[On November 27, 2001, the permittee conducted emission testing that demonstrated compliance with the allowable hourly NOx emission limitation of 1.1 lbs/hr (the calculated hourly NOx emission rate based on the results of the testing was 0.67 lb/hr)]

[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]

- b. Emission Limitation:
 - 1.85 lbs CO/hr

Applicable Compliance Method:

Compliance with the hourly allowable CO emission limitation may be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (mm cu. ft./hour) by the AP-42, Table 1.4-1 (revised 7/98) emission factor for natural gas of 84 lbs CO /mm cu. ft.

If required, the permittee shall demonstrate compliance the hourly allowable CO emission limitation above in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 10.

[On November 27, 2001, the permittee conducted emission testing that demonstrated compliance with the allowable hourly CO emission limitation of 1.85 lbs/hr (the calculated hourly CO emission rate based on the results of the testing was 0.35 lb/hr)]

[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]

- c. Emission Limitations:
 - 0.44 lb PE/hr
 - 0.020 lb PE/mmBtu of actual heat input

Applicable Compliance Method:

Compliance with the hourly allowable PE limitation may be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (mm cu. ft./hour) by the AP-42, Table 1.4-2 (revised 7/98) emission factor for natural gas of 1.9 lbs PE/mm cu. ft.

Compliance with the lb/mmBtu allowable PE limitation may be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (mm cu. ft./hour) by the AP-42, Table 1.4-2 (revised 7/98) emission factor for natural gas of 1.9 lbs PE/mm cu. ft, and then dividing by the maximum heat input capacity of the emissions unit (mmBtu/hr).

If required, the permittee shall demonstrate compliance with the hourly and lb/mmBtu allowable PE

limitations in accordance with 40 CFR, Part 60, Appendix A, Methods 1 through 5.

[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]

- d. Emission Limitation:
Visible PE shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1).

[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]

- e. Emission Limitation:
6.96 tons NOx per rolling, 12-month period, for emissions units B001, B002, and B003, combined

Applicable Compliance Method
Compliance shall be determined by the record keeping required in section A.III.2 of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]

- f. Emission Limitations:
4.82 tons NOx/yr
8.1 tons CO/yr
1.9 tons PE/yr
- Applicable Compliance Method:
The annual limitation for each pollutant above was developed by multiplying the hourly limitation for each pollutant by the maximum operating schedule of 8760 hrs/year, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation for each pollutant, compliance shall also be shown with the annual limitation for each pollutant.

[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]

- g. Operational Restriction:
278.4 mm cu. ft of natural gas/rolling, 12-month summation, for emissions units B001, B002, and B003, combined

Applicable Compliance Method
Compliance shall be determined by the record keeping required in section A.III.2 of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #: 03-13598]

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

- 1. None

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

Facility ID: 0320010044 Issuance type: Title V Proposed Permit

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

Facility ID: 0320010044 Emissions Unit ID: B003 Issuance type: Title V Proposed Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **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>
---	--------------------------------------	--

2. Additional Terms and Conditions

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. Monitoring and/or Record Keeping Requirements

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. Reporting Requirements

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. Testing Requirements

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. Miscellaneous Requirements

1. None