



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
FRANKLIN COUNTY**

**CERTIFIED MAIL**

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 01-08738**

**DATE: 7/10/2003**

Greater Columbus Convention Center  
John Boyer  
400 North High Street  
Columbus, OH 43215

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
309 South Fourth Street, Room 222  
Columbus, Ohio 43215

Sincerely,

Michael W. Ahern, Supervisor  
Field Operations and Permit Section  
Division of Air Pollution Control

cc: USEPA

CDO



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**Permit To Install  
Terms and Conditions**

**Issue Date: 7/10/2003  
Effective Date: 7/10/2003**

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**FINAL PERMIT TO INSTALL 01-08738**

Application Number: 01-08738  
APS Premise Number: 0125040930  
Permit Fee: **\$1600**  
Name of Facility: Greater Columbus Convention Center  
Person to Contact: John Boyer  
Address: 400 North High Street  
Columbus, OH 43215

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**400 North High Street  
Columbus, Ohio**

Description of proposed emissions unit(s):  
**Hot water generator.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

## Part I - GENERAL TERMS AND CONDITIONS

### A. Permit to Install General Terms and Conditions

#### 1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

#### 2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### 3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

#### 4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**5. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

**6. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

**7. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

**8. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**9. Construction of New Sources(s)**

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio

Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

**10. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

**11. Applicability**

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

**12. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

**13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

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**Greater Columbus Convention Center**  
**PTI Application: 01-08738**  
**Issued: 7/10/2003**

**Facility ID: 0125040930**

**14. Construction Compliance Certification**

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

**15. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

**B. Permit to Install Summary of Allowable Emissions**

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)  
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
NOx	5.8
CO	9.4
OC	1.2

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

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

- 1. The specific operations(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 specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	OAC rule 3745-23-06(B)
B003 - 13.6 MMBTU/hr natural gas fired boiler, equipped with low NOx burners	OAC rule 3745-31-05(A)(3)	
	OAC rule 3745-17-10(B)(1)	
	OAC rule 3745-17-07(A)(1)	
	OAC rule 3745-21-08(B)	

Applicable Emissions  
Limitations/Control  
Measures

See Section A..2.b below.

Nitrogen oxide (NOx) emissions from the boiler stack shall not exceed 0.05 lb/MMBTU and 2.9 ton/yr.

Carbon monoxide (CO) emissions from the boiler stack shall not exceed 1.08 lbs/hr and 4.7 tons/yr.

Organic Compound (OC) emissions from the boiler stack shall not exceed 0.14 lb/hr and 0.6 ton/yr.

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-10(B)(1) and 3745-17-07(A)(1).

See Section A..2.c below.

Particulate emissions shall not exceed 0.020 lb/MMBTU of actual heat input.

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

See Section A..2.a below.

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**Great**

**PTI A**

**Issued: 7/10/2003**

Emissions Unit ID: **B003**

## 2. Additional Terms and Conditions

- 2.a** The design of the emissions unit and the technology associated with the current operating practices will satisfy the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08.

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.

- 2.b** The design of the emissions unit and the technology associated with the current operating practices will satisfy the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06.

- 2.c** The permittee shall install low NOx burners to this emissions unit within 120 days of the issuance of this permit according to the following compliance schedule:

	<u>Milestone Dates</u>
i. Issue orders for the purchase of component parts for installation of low NOx burners	August, 2003
ii. Initiate on-site installation of low NOx burners	September, 2003
iii. Complete on-site installation of low NOx burners	October, 2003

- 2.d** The hourly emission limitations for this emissions unit were established to reflect the maximum potential to emit. Therefore, it is not necessary to develop additional monitoring, record keeping, and/or reporting requirements to ensure compliance with the short term limits.

## B. Operational Restrictions

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

## C. Monitoring and/or Recordkeeping Requirements

1. Pursuant to 40 CFR Part 60, Subpart Dc, the permittee shall record and maintain records of the amount of natural gas combusted during each day.
2. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

#### **D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit deviation (excursion) reports that identify each day during which records were not maintained on the amount of natural gas combusted in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. The following sources are subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation</u>
B003	13.6 MMBtu/hr Natural Gas Boiler	Subpart Dc

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Greater Columbus Convention Center

PTI Application: 01 00720

Issued

Facility ID: 0125040930

Emissions Unit ID: B003

Ohio Environmental Protection Agency  
 DAPC - Air Quality Modeling and Planning  
 P.O. Box 1049  
 Columbus, OH 43216-1049

and Central District Office  
 Division of Air Pollution Control  
 3232 Alum Creek Parkway  
 Columbus, OH 43207-3417

## E. Testing Requirements

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

- a. Emission Limitation:  
 NOx emissions shall not exceed 0.05 lb/MMBTU.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 7E. Alternative EPA approved test methods may be used with prior approval from the Ohio EPA.

- b. Emission Limitation:  
 NOx emissions shall not exceed 2.9 ton/yr.

Applicable Compliance Method:

Compliance with the annual limit may be determined by multiplying the 0.05 lb/MMBTU NOx emission rate by the total heat input capacity of the boiler (13.6 MMBTU/hr). The pound per hour emission rate shall be multiplied by 8760 and divided by 2000 pounds per ton to obtain annual emissions in tons.

- c. Emission Limitations:  
 CO emissions shall not exceed 1.08 lbs/hr and 4.7 tons/yr.

Applicable Compliance Method:

Compliance with the hourly limit may be determined by multiplying the maximum amount of natural gas burned per hour (12,830 cubic feet) by the emission factor of 84 lbs CO/10<sup>6</sup> scf ("Compilation of Air Pollutant Emission Factors, AP-42", Table 1.4-1 for natural gas, 7/98).

The annual CO emission limitation was established by multiplying the hourly emission limitation by 8760 hrs/yr and dividing by 2000 lbs/ton. Compliance with this emission limitation may be assumed provided that the permittee complies with the hourly CO emission limitation.

If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 10. Alternative EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. Emission Limitations:  
OC emissions shall not exceed 0.14 lb/hr and 0.6ton/yr.

Applicable Compliance Method:

Compliance with the hourly limit may be determined by multiplying the maximum amount of natural gas burned per hour (12,830 cubic feet) by the emission factor of 11 lbs OC/10<sup>6</sup> scf ("Compilation of Air Pollutant Emission Factors, AP-42", Table 1.4-1 for natural gas, 7/98).

The annual OC emission limitation was established by multiplying the hourly emission limitation by 8760 hrs/yr and dividing by 2000 lbs/ton. Compliance with this emission limitation may be assumed provided that the permittee complies with the hourly OC emission limitation.

If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 18, 25, or 25A. Alternative EPA approved test methods may be used with prior approval from the Ohio EPA.

- e. Emission Limitation:  
PE shall not exceed 0.020 lb/MMBtu of actual heat input.

Applicable Compliance Method:

Compliance with the limit may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (12,830 cubic ft/hr) by 1.9 lb particulate/million cubic feet (emission factor from "Compilation of Air Pollutant Emission Factors, AP-42", Table 1.4-2 for natural gas combustion, 7/98) and dividing by the maximum heat input capacity of 13.6 MMBTU/hr.

**Greater Columbus Convention Center**

**PTI Application: 01 00720**

**Issued**

**Facility ID: 0125040930**

Emissions Unit ID: **B003**

- f. Emission Limitation:  
Visible particulate emissions from the boiler stack shall not exceed 20% opacity, as a 6-minute average.

Applicable Compliance Method:

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

**F. Miscellaneous Requirements**

None

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

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

- 1. The specific operations(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 specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
B004 - 13.6 MMBTU/hr natural gas fired boiler, equipped with low NOx burners	OAC rule 3745-31-05(A)(3)	OAC rule 3745-21-08(B) OAC rule 3745-23-06(B)
	OAC rule 3745-17-10(B)(1)	
	OAC rule 3745-17-07(A)(1)	

Applicable Emissions  
Limitations/Control  
Measures

See Section A.2.b below.

Nitrogen oxide (NOx) emissions from the boiler stack shall not exceed 0.05 lb/MMBTU and 2.9 ton/yr.

Carbon monoxide (CO) emissions from the boiler stack shall not exceed 1.08 lbs/hr and 4.7 tons/yr.

Organic Compound (OC) emissions from the boiler stack shall not exceed 0.14 lb/hr and 0.6 ton/yr.

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-10(B)(1) and 3745-17-07(A)(1).

See Section A.2.c below.

Particulate emissions shall not exceed 0.020 lb/MMBTU of actual heat input.

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

See Section A.2.a below.

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**Great**

**PTI A**

**Issued: 7/10/2003**

Emissions Unit ID: **B004**

## 2. Additional Terms and Conditions

- 2.a** The design of the emissions unit and the technology associated with the current operating practices will satisfy the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08.

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.

- 2.b** The design of the emissions unit and the technology associated with the current operating practices will satisfy the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06.

- 2.c** The permittee shall install low NOx burners to this emissions unit within 120 days of the issuance of this permit according to the following compliance schedule:

	<u>Milestone Dates</u>
i. Issue orders for the purchase of component parts for installation of low NOx burners	August, 2003
ii. Initiate on-site installation of low NOx burners	September, 2003
iii. Complete on-site installation of low NOx burners	October, 2003

- 2.d** The hourly emission limitations for this emissions unit were established to reflect the maximum potential to emit. Therefore, it is not necessary to develop additional monitoring, record keeping, and/or reporting requirements to ensure compliance with the short term limits.

## B. Operational Restrictions

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

## C. Monitoring and/or Recordkeeping Requirements

Greater Columbus Convention Center

PTI Application: 01 00720

Issued

Facility ID: 0125040930

Emissions Unit ID: B004

1. Pursuant to 40 CFR Part 60, Subpart Dc, the permittee shall record and maintain records of the amount of natural gas combusted during each day.
2. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

#### D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit deviation (excursion) reports that identify each day during which records were not maintained on the amount of natural gas combusted in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. The following sources are subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation</u>
B004	13.6 MMBtu/hr Natural Gas Boiler	Subpart Dc

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency

DAPC - Air Quality Modeling and Planning  
P.O. Box 1049  
Columbus, OH 43216-1049

and Central District Office  
Division of Air Pollution Control  
3232 Alum Creek Parkway  
Columbus, OH 43207-3417

## **E. Testing Requirements**

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

- a. Emission Limitation:  
NOx emissions shall not exceed 0.05 lb/MMBTU.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 7E. Alternative EPA approved test methods may be used with prior approval from the Ohio EPA.

- b. Emission Limitation:  
NOx emissions shall not exceed 2.9 ton/yr.

Applicable Compliance Method:

Compliance with the annual limit may be determined by multiplying the 0.05 lb/MMBTU NOx emission rate by the total heat input capacity of the boiler (13.6 MMBTU/hr). The pound per hour emission rate shall be multiplied by 8760 and divided by 2000 pounds per ton to obtain annual emissions in tons.

- c. Emission Limitations:  
CO emissions shall not exceed 1.08 lbs/hr and 4.7 tons/yr.

Applicable Compliance Method:

Compliance with the hourly limit may be determined by multiplying the maximum amount of natural gas burned per hour (12,830 cubic feet) by the emission factor of 84 lbs CO/10<sup>6</sup> scf ("Compilation of Air Pollutant Emission Factors, AP-42", Table 1.4-1 for natural gas, 7/98).

The annual CO emission limitation was established by multiplying the hourly emission limitation by 8760 hrs/yr and dividing by 2000 lbs/ton. Compliance with this emission limitation may be assumed provided that the permittee complies with the hourly CO emission limitation.

If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 10. Alternative EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. Emission Limitations:  
OC emissions shall not exceed 0.14 lb/hr and 0.6 ton/yr.

Applicable Compliance Method:

Compliance with the hourly limit may be determined by multiplying the maximum amount of natural gas burned per hour (12,830 cubic feet) by the emission factor of 11 lbs OC/10<sup>6</sup> scf ("Compilation of Air Pollutant Emission Factors, AP-42", Table 1.4-1 for natural gas, 7/98).

The annual OC emission limitation was established by multiplying the hourly emission limitation by 8760 hrs/yr and dividing by 2000 lbs/ton. Compliance with this emission limitation may be assumed provided that the permittee complies with the hourly OC emission limitation.

If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 18, 25, or 25A. Alternative EPA approved test methods may be used with prior approval from the Ohio EPA.

- e. Emission Limitation:  
PE shall not exceed 0.020 lb/MMBtu of actual heat input.

Applicable Compliance Method:

Compliance with the limit may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (12,830 cubic ft/hr) by 1.9 lb particulate/million cubic feet (emission factor from "Compilation of Air Pollutant Emission Factors, AP-42", Table 1.4-2 for natural gas combustion, 7/98) and dividing by the maximum heat input capacity of 13.6 MMBTU/hr.

**Greater Columbus Convention Center**

**PTI Application: 01 00720**

**Issued**

**Facility ID: 0125040930**

Emissions Unit ID: **B004**

- f. Emission Limitation:  
Visible particulate emissions from the boiler stack shall not exceed 20% opacity, as a 6-minute average.

Applicable Compliance Method:

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

**F. Miscellaneous Requirements**

None