Ohio Environmental Protection Agency

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

Certified Mail

3/29/2016

No	TOXIC REVIEW
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MODELING SUBMITTED
No	SYNTHETIC MINOR TO AVOID TITLE V
yes	FEDERALLY ENFORCABLE PTIO (FEPTIO)
yes	SYNTHETIC MINOR TO AVOID MAJOR GHG

Robert Barnett
Christ Hospital
2139 Auburn Ave
Cincinnati, OH 45219

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 1431070132
Permit Number: P0120359
Permit Type: Renewal
County: Hamilton

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) Air Pollution Permit-to-Install and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**
- **What should you do if you notice a spill or environmental emergency?**

How to appeal this permit

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 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. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of $70.00, made payable to "Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
77 South High Street, 17th Floor
Columbus, OH 43215

How to save money, reduce pollution and reduce energy consumption

The Ohio EPA is encouraging 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 Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: www.ohioairquality.org/clean_air

How to give us feedback on your permitting experience

Please complete a survey at www.epa.ohio.gov/survey.aspx and give us feedback on your permitting experience. We value your opinion.

How to get an electronic copy of your permit

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

What should you do if you notice a spill or environmental emergency?

Any spill or environmental emergency which may endanger human health or the environment should be reported to the Emergency Response 24-HOUR EMERGENCY SPILL HOTLINE toll-free at (800) 282-9378. Report non-emergency complaints to the appropriate district office or local air agency.

If you have any questions regarding your permit, please contact Southwest Ohio Air Quality Agency at (513)946-7777 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,

Michael E. Hopkins, P.E.
Assistant Chief, Permitting Section, DAPC

Cc: SWOAQA

Ohio Environmental Protection Agency

FINAL

Division of Air Pollution Control
Permit-to-Install and Operate
for
Christ Hospital

Facility ID:	1431070132
Permit Number:	P0120359
Permit Type:	Renewal
Issued:	3/29/2016
Effective:	3/29/2016
Expiration:	3/29/2021

Ohio Environmental Protection Agency

Division of Air Pollution Control
Permit-to-Install and Operate
for
Christ Hospital

Table of Contents

Authorization 1

A. Standard Terms and Conditions 3

1. What does this permit-to-install and operate ("PTIO") allow me to do? 4
2. Who is responsible for complying with this permit? 4
3. What records must I keep under this permit? 4
4. What are my permit fees and when do I pay them? 4
5. When does my PTIO expire, and when do I need to submit my renewal application? 4
6. What happens to this permit if my project is delayed or I do not install or modify my source? 5
7. What reports must I submit under this permit? 5
8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit? 5
9. What are my obligations when I perform scheduled maintenance on air pollution control equipment? 5
10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report? 6
11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located? 6
12. What happens if one or more emissions units operated under this permit is/are shut down permanently? 6
13. Can I transfer this permit to a new owner or operator? 7
14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"? 7
15. What happens if a portion of this permit is determined to be invalid? 7

B. Facility-Wide Terms and Conditions 8

C. Emissions Unit Terms and Conditions 10

1. Emissions Unit Group -B004, B005 and B006: B004,B005,B006, ... 11

Authorization

Facility ID:	1431070132
Application Number(s):	A0055424
Permit Number:	P0120359
Permit Description:	FEPTIO renewal permit for three 48.2 MMBtu/hr natural gas/#2 fuel oil-fired boilers.
Permit Type:	Renewal
Permit Fee:	$0.00
Issue Date:	3/29/2016
Effective Date:	3/29/2016
Expiration Date:	3/29/2021

Permit Evaluation Report (PER) Annual Date: Apr 1 - Mar 31, Due May 15

This document constitutes issuance to:

Christ Hospital
2139 AUBURN AVE
CINCINNATI, OH 45219

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Southwest Ohio Air Quality Agency
250 William Howard Taft Rd.
Cincinnati, OH 45219
(513)946-7777

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s))listed in this section 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 described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Craig W. Butler
Director

Authorization (continued)

Permit Number: P0120359
Permit Description: FEPTIO renewal permit for three 48.2 MMBtu/hr natural gas/#2 fuel oil-fired boilers.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Group Name: B004, B005 and B006

Emissions Unit ID:	**B004**
Company Equipment ID:	48.2 mmBtu/Hr Gas/#2 Oil Fired Boiler
Superseded Permit Number:	P0108485
General Permit Category andType:	Not Applicable
Emissions Unit ID:	**B005**
Company Equipment ID:	48.2 mmBtu/Hr Gas/#2 Oil Fired Boiler
Superseded Permit Number:	P0108485
General Permit Category andType:	Not Applicable
Emissions Unit ID:	**B006**
Company Equipment ID:	48.2 mmBtu/Hr Gas/#2 Oil Fired Boiler
Superseded Permit Number:	P0108485
General Permit Category andType:	Not Applicable

A. Standard Terms and Conditions

1. What does this permit-to-install and operate ("PTIO") allow me to do?

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. Who is responsible for complying with this permit?

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. What records must I keep under this permit?

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. What are my permit fees and when do I pay them?

There are two fees associated with permitted air contaminant sources in Ohio:

PTIO fee.This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

Annual emissions fee.Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. When does my PTIO expire, and when do I need to submit my renewal application?

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is

very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions of this permit will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.

10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the [DO/LAA] in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emission unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as beingpermanently shut down without first applying for and obtaining a permit pursuantto OAC Chapter 3745-31.

13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.

B. Facility-Wide Terms and Conditions

1. 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).

   a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

      (1) None.

   b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

      (1) None.

2. The Ohio EPA has determined that this facility is subject to the requirements of an area source MACT/GACT rule that the Ohio EPA does not have the delegated authority to implement. Although Ohio EPA has determined that an area source MACT (also known as the GACT) applies, at this time Ohio EPA does not have the authority to enforce this standard. Instead, USEPA has the authority to enforce this standard. Please be advised that all requirements associated with these rules are in effect and are enforceable by USEPA. For more information on the area source rules, please refer to the following USEPA website: http://www.epa.gov/ttn/atw/area/arearules.html

   The area source rule(s) that apply are:

   40 CFR Part 63 Subpart JJJJJJ: Industrial/Commercial/Institutional Boilers.

C. Emissions Unit Terms and Conditions

1. Emissions Unit Group -B004, B005 and B006: B004,B005,B006,

EU ID	Operations, Property and/or Equipment Description
B004	48.2 mmBtu/Hr Gas/#2 Oil Fired Boiler
B005	48.2 mmBtu/Hr Gas/#2 Oil Fired Boiler
B006	48.2 mmBtu/Hr Gas/#2 Oil Fired Boiler

a) 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. b)(1)b., c)(1) thru (3), d)(3), and e)(2).

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	See b)(2)a. and b)(2)b.
b.	OAC rule 3745-31-05(D)	See b)(2)c.
c.	40 CFR Part 60, Subpart Dc	The emission limitation specified by this rule is less stringent than the emission limitations outlined in OAC rule 3745-31-05(A)(3).
d.	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitations outlined in OAC rule 3745-31-05(A)(3).
e.	OAC rule 3745-17-10(B)(1)	When burning #2 fuel oil the emission limitation specified by this rule is the same as the particulate emission (PE) limitation outlined in OAC rule 3745-31-05(A)(3). When burning natural gas the emission

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		limit is less stringent than the particulate emission (PE) limitation outlined in OAC rule 3745-31-05(A)(3).
f.	OAC rule 3745-18-06(D)	The emission limitation specified by this rule is the same as the sulfur dioxide (SO2)emission limitation outlined in OAC rule 3745-31-05(A)(3).
g.	OAC rule 3745-18-06(A)	Exempt from paragraphs (D), (F) and (G) of this rule and from rules 3745-18-07 to 3745-18-94 of the Administrative Code during any calendar day in which natural gas is the only fuel burned.

(2) Additional Terms and Conditions

a. The following emission limitations shall not be exceeded when burning only natural gas:

Emission Limitation:

PE shall not exceed 0.005 lb/mmBtu of actual heat input.
SO2 shall not exceed 0.0006 lb/mmBtu of actual heat input.
NOx shall not exceed 0.10 lb/mmBtu of actual heat input.
CO shall not exceed 0.16 lb/mmBtu of actual heat input.
VOC shall not exceed 0.009 lb/mmBtu of actual heat input.

The following emission limitations shall not be exceeded when burning No. 2 fuel oil:

PE shall not exceed 0.020 lb/mmBtu of actual heat input.
SO2 shall not exceed 0.3 lb/mmBtu of actual heat input.
NOx shall not exceed 0.17 lb/mmBtu of actual heat input.
CO shall not exceed 0.20 lb/mmBtu of actual heat input.
VOC shall not exceed 0.0014 lb/mmBtu of actual heat input.

b. Visible particulate emissions from any stack shall not exceed 20% opacity, as a six-minute average, except for a one-minute period of not more than 27% opacity.

c. The combined total emissions from the burning of natural gas and No. 2 fuel oil in emissions units B004, B005, and B006 shall not exceed the following, based upon a rolling, 365-day period:

Particulate Emissions (PE) shall not exceed 3.83 TPY.
Sulfur Dioxide (SO2) emissions shall not exceed 15.86 TPY.
Nitrogen Oxide (NOx) emissions shall not exceed 64.71 TPY.

Carbon Monoxide (CO) emissions shall not exceed 99.9 TPY.
Volatile Organic Compound (VOC) emissions shall not exceed 5.10 TPY.

c) Operational Restrictions

(1) This emissions unit shall employ a low NOx burner at all times when the unit is in operation.

(2) Annual usage of No. 2 fuel oil in this emissions unit shall not exceed 250,000 gallons per year, based upon a rolling, 365-day period.

(3) The combined annual usage of natural gas in emissions units B004, B005, and B006 shall not exceed 1086 million cubic feet per year based upon a rolling, 365-day period.

(4) The sulfur content of each shipment of No. 2 fuel oil received for burning in this emissions unit shall not exceed 0.3% by weight.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F). A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.

b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or

the appropriate ASTM methods, such as ASTM methods D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the Director.

(2) For each day during which the permittee burns a fuel other than natural gas or No.2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

(3) The permittee shall maintain daily records of the following information:

a. the combined amount of natural gas (in million cubic feet) burned in emissions unit B004, B005, and B006;

b. the rolling, 365-day summation of natural gas (in million cubic feet) burned in emissions unit B004, B005, and B006;

c. the total amount of No. 2 fuel oil (in gallons) burned in this emissions unit;

d. the rolling, 365-day summation of the No. 2 fuel oil (in gallons) burned in this emissions unit; and

e. the rolling, 365-day summation of the total emissions of PE, SO2, NOx, CO and VOC from emissions units B004, B005, and B006.

e) Reporting Requirements

(1) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the District Office or Local Air Agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.

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

a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:

i. any record which shows a deviation from the allowable sulfur dioxide emission limitation contained in this permit, based upon the sulfur dioxide emission rates calculated in accordance with the formula specified in OAC rule 3745-18-04(F).

ii. any exceedance of the rolling, 365-day, natural gas usage limitation for emissions units B004, B005, and B006; and

iii. any exceedance of the rolling, 365-day, No. 2 fuel oil usage limitation for this emissions unit.

b. the probable cause of each deviation (excursion);

c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and

d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

(3) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Fuel Usage Limitations:

The combined annual usage of natural gas in emissions units B004, B005, and B006 shall not exceed 1086 million cubic feet per year based upon a rolling, 365-day period.

Annual usage of No. 2 fuel oil in this emissions unit shall not exceed 250,000 gallons per year, based upon a rolling, 365-day period.

Applicable Compliance Method:

Compliance with the fuel usage limitations shall be demonstrated by the record keeping requirements outlined in d).

b. Operational Restriction:

The sulfur content of each shipment of No. 2 fuel oil received for burning in this emissions unit shall not exceed 0.3% by weight.

Applicable Compliance Method:

Compliance with the No. 2 fuel oil sulfur content restriction specified above shall be determined by the record keeping requirements specified in d).

c. Emission Limitation

Visible particulate emissions from any stack shall not exceed 20% opacity, as a six-minute average, except for a one-minute period of not more than 27% opacity.

Applicable Compliance Method:

Compliance shall be determined through visible emission 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).

d. Emission Limitation(s):

PE shall not exceed 0.005 lb/mmBtu of actual heat input when burning natural gas.

Applicable Compliance Method(s):

The emission limitation was based upon manufacturer's data supplied by the permittee with the application for PTI 14-03326 submitted on November 17, 1994.

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1- 5.

e. Emission Limitation(s):

PE shall not exceed 0.020 lb/mmBtu of actual heat input when burning No. 2 fuel oil.

The emission limitation is a rule based limitation based upon OAC rule 3745-17-10(B)(1).

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1- 5.

f. Emission Limitation(s):

SO2 shall not exceed 0.0006 lb/mmBtu of actual heat input when burning natural gas.

Applicable Compliance Method(s):

The emission limitation was based upon the emission factor from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-2 (7/98). Compliance with the lb/mmBtu emission limitation shall be based upon the record keeping in d)(1) and d)(2).

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1- 4, and 6.

g. Emission Limitation(s):

SO2 shall not exceed 0.3 lb/mmBtu of actual heat input when burning No. 2 fuel oil.

Applicable Compliance Method:

The emission limitations were based upon the emission factor from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.3, Table 1.3-1 (9/98). Compliance with the lb/mmBtu emission limitation shall be based upon the record keeping in d)(1) and d)(2).

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1- 4, and 6.

h. Emission Limitation(s):

NOx shall not exceed 0.10 lb/mmBtu of actual heat input when burning natural gas.

Applicable Compliance Method(s):

The emission limitation was based upon manufacturer’s data supplied by the permittee with the application for PTI 14-03326 submitted on November 17, 1994.

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1- 4, and 7.

i. Emission Limitation(s):

NOx shall not exceed 0.17 lb/mmBtu of actual heat inputwhen burning No. 2 fuel oil.

Applicable Compliance Method(s):

The emission limitation was based upon manufacturer's data supplied by the permittee with the application for PTI 14-03326 submitted on November 17, 1994.

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1- 4, and 7.

j. Emission Limitation(s):

CO shall not exceed 0.16 lb/mmBtu of actual heat inputwhen burning natural gas.

Applicable Compliance Method(s):

The emission limitation was based upon manufacturer's data supplied by the permittee with the application for PTI 14-03326 submitted on November 17, 1994.

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1- 4, and 10.

k. Emission Limitation(s):

CO shall not exceed 0.20 lb/mmBtu of actual heat inputwhen burning No. 2 fuel oil.

Applicable Compliance Method(s):

The emission limitation was based upon manufacturer's data supplied by the permittee with the application for PTI 14-03326 submitted on November 17, 1994.

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1- 4, and 10.

l. Emission Limitation(s):

VOC shall not exceed 0.009 lb/mmBtu of actual heat inputwhen burning natural gas.

Applicable Compliance Method(s):

The emission limitation was based upon manufacturer's data supplied by the permittee with the application for PTI 14-03326 submitted on November 17, 1994.

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1- 4 and 25.

m. Emission Limitation(s):

VOC shall not exceed 0.0014 lb/mmBtu of actual heat inputwhen burning No. 2 fuel oil.

Applicable Compliance Method(s):

The emission limitation was based upon manufacturer's data supplied by the permittee with the application for PTI 14-03326 submitted on November 17, 1994.

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1- 4 and 25.

n. Emission Limitation:

The combined total Particulate Emissions (PE) emissions from the burning of natural gas and No. 2 fuel oil in emissions units B004, B005, and B006 shall not exceed 3.83 tons per year, based upon a rolling, 365-day period.

Applicable Compliance Method:

The annual PE limitation may was determined using the following equation:

(1086 mmft3 natural gas/year x 1030 Btu/ft3 x 0.005 lb of PE/mmBtu) + (750,000 gallons of #2 fuel oil/year x 138 mmBtu/1000 gallons x 0.020 lb of PE/mmBtu) x ton/2000 lbs = 3.83 TPY.

o. Emission Limitation:

The combined total Sulfur Dioxide (SO2) emissions from the burning of natural gas and No. 2 fuel oil in emissions units B004, B005, and B006 shall not exceed 15.86 tons per year, based upon a rolling, 365-day period.

Applicable Compliance Method:

The annual SO2 limitation may was determined using the following equation:

(1086 mmft3 natural gas/year x 1030 Btu/ft3 x 0.0006 lb of SO2/mmBtu) + (750,000 gallons of #2 fuel oil/year x 138 mmBtu/1000 gallons x 0.3 lb of SO2/mmBtu) x ton/2000 lbs = 15.86 TPY.

p. Emission Limitation:

The combined total Nitrogen Oxide (NOx) emissions from the burning of natural gas and No. 2 fuel oil in emissions units B004, B005, and B006 shall not exceed 64.71 tons per year, based upon a rolling, 365-day period.

Applicable Compliance Method:

The annual NOx limitation may was determined using the following equation:

(1086 mmft3 natural gas/year x 1030 Btu/ft3 x 0.1 lb of NOx/mmBtu) + (750,000 gallons of #2 fuel oil/year x 138 mmBtu/1000 gallons x 0.17 lb of NOx/mmBtu) x ton/2000 lbs = 64.71 TPY.

q. Emission Limitation:

The combined total Carbon Monoxide (CO) emissions from the burning of natural gas and No. 2 fuel oil in emissions units B004, B005, and B006 shall not exceed 99.9 tons per year, based upon a rolling, 365-day period.

Applicable Compliance Method:

The annual CO limitation may was determined using the following equation:

(1086 mmft3 natural gas/year x 1030 Btu/ft3 x 0.16 lb of CO/mmBtu) + (750,000 gallons of #2 fuel oil/year x 138 mmBtu/1000 gallons x 0.20 lb of CO/mmBtu) x ton/2000 lbs = 99.9 TPY.

r. Emission Limitation:

The combined total Volatile Organic Compound (VOC) emissions from the burning of natural gas and No. 2 fuel oil in emissions units B004, B005, and B006 shall not exceed 5.10 tons per year, based upon a rolling, 365-day period.

Applicable Compliance Method:

The annual VOC limitation may was determined using the following equation:

(1086 mmft3 natural gas/year x 1030 Btu/ft3 x 0.009 lb of VOC/mmBtu) + (750,000 gallons of #2 fuel oil/year x 138 mmBtu/1000 gallons x 0.0014 lb of VOC/mmBtu) x ton/2000 lbs = 5.10 TPY.

g) Miscellaneous Requirements

(1) None.