State of Ohio Environmental Protection Agency

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10/1/2009

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Steve Curtis
Good Samaritan Hospital
375 DIXMYTH AVE
Cincinnati, OH 45220

RE: DRAFT AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 1431070086
Permit Number: P0098084
Permit Type: Renewal
County: Hamilton

Dear Permit Holder:

A draft of the Ohio Administrative Code (OAC) Chapter 3745-31 Air Pollution Permit-to-Install and Operate for the referenced facility has been issued for the emissions unit(s) listed in the Authorization section of the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit comments on the permit. A public notice will appear in the Ohio EPA Weekly Review and the local newspaper, The Cincinnati Enquirer. A copy of the public notice and the draft permit are enclosed. This permit has been posted to the Division of Air Pollution Control Web page http://www.epa.state.oh.us/dapc in Microsoft Word and Adobe Acrobat format. Comments will be accepted as a marked-up copy of the draft permit or in narrative format. Any comments must be sent to the following:

Andrew Hall
Permit Review/Development Section
Ohio EPA, DAPC
122 South Front Street
Columbus, Ohio 43215

and

Hamilton County Dept. of Environmental Services
250 William Howard Taft Pkwy.
Cincinnati, OH 45219-2660

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper. You will be notified in writing if a public hearing is scheduled. A decision on issuing a final permit-to-install and operate will be made after consideration of comments received and oral testimony if a public hearing is conducted. Any permit fee that will be due upon issuance of a final Permit-to-Install and Operate is indicated in the Authorization section. Please do not submit any payment now. If you have any questions, please contact Hamilton County Dept. of Environmental Services at (513)946-7777.

Sincerely,

Michael W. Ahern

Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: U.S. EPA Region 5 *Via E-Mail Notification*
HCDOES; Indiana; Kentucky

Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director

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Permit Strategy Write-Up

1. Check all that apply:

   _x_ Synthetic Minor Determination

   ___ Netting Determination

2. Source Description:

   This FEPTIO is for three 29.6 mmBTU/hr natural gas/No. 2 Fuel oil boilers located at Good Samaritan Hospital.

3. Facility Emissions and Attainment Status:

   The facility is located in Hamilton County which is currently non-attainment for 8-hour ozone standard (VOC and NOx), non-attainment for particulate matter 2.5 microns and less in diameter (PM2.5), and attainment for all other criteria pollutants.

   The facility is a synthetic minor source of sulfur dioxide (SO2) as established in Federally Enforceable PTI 14-05152, issued 10/04/01, in order to avoid triggering major source status under Title V.

4. Source Emissions:

   With the renewal of this FEPTIO, SO2 emissions will remain limited to 24.9 TPY for each boiler (B004, B005 and B006) for a total of 74.7 TPY SO2. In order to meet this limitation the maximum amount of No. 2 fuel oil will be restricted to 700,000 gallons per year for each boiler. Recordkeeping and reporting requirements will ensure compliance with these limitations.

5. Conclusion:

   With the federally enforceable limitations established in PTI 14-05152 and carried through with this FEPTIO for emissions units B004, B005 and B006, the permittee will continue to be a synthetic minor for SO2 emissions. The permittee will maintain records and submit reports to demonstrate compliance with the permit limitations.

6. Please provide additional notes or comments as necessary:

   None

7. Total Permit Allowable Emissions Summary (for informational purposes only):

Pollutant	Tons Per Year
SO2	74.7
PE/PM10	2.55
NOx	44.61

CO	31.71
VOC	4.14

Hamilton County

PUBLIC NOTICE
Issuance of Draft Air Pollution Permit-To-Install and Operate
Good Samaritan Hospital

Issue Date: 10/1/2009
Permit Number: P0098084
Permit Type: Renewal
Permit Description: Renewal for three 29.6 MMBtu/Hr Natural Gas. No. 2 Fuel Oil Fired Boilers issued under PTI 14-05152 issued 10/4/01.
Facility ID: 1431070086
Facility Location: Good Samaritan Hospital
375 DIXMYTH AVE,
Cincinnati, OH 45220
Facility Description: General Medical and Surgical Hospitals

Chris Korleski, Director of the Ohio Environmental Protection Agency, 50 West Town Street, Columbus Ohio has issued a draft action of an air pollution control, federally enforceable permit-to-install and operate (PTIO) for the facility at the location identified above on the date indicated. Comments concerning this draft action, or a request for a public meeting, must be sent in writing no later than thirty (30) days from the date this notice is published. All comments, questions, requests for permit applications or other pertinent documentation, and correspondence concerning this action must be directed to Mike Kramer at Hamilton County Dept. of Environmental Services, 250 William Howard Taft Pkwy. or (513)946-7777. The permit can be downloaded from the Web page: www.epa.ohio.gov/dapc

State of Ohio Environmental Protection Agency
Division of Air Pollution Control

DRAFT

Air Pollution Permit-to-Install and Operate
for
Good Samaritan Hospital

Facility ID: 1431070086
Permit Number: P0098084
Permit Type: Renewal
Issued: 10/1/2009
Effective: To be entered upon final issuance
Expiration: To be entered upon final issuance

State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Air Pollution Permit-to-Install and Operate
for
Good Samaritan Hospital

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Authorization

Facility ID: 1431070086
Application Number(s): A0029744
Permit Number: P0098084
Permit Description: Renewal for three 29.6 MMBtu/Hr Natural Gas. No. 2 Fuel Oil Fired Boilers issued under PTI 14-05152 issued 10/4/01.
Permit Type: Renewal
Permit Fee: $0.00 *DO NOT send payment at this time - subject to change before final issuance*
Issue Date: 10/1/2009
Effective Date: To be entered upon final issuance
Expiration Date: To be entered upon final issuance
Permit Evaluation Report (PER) Annual Date: To be entered upon final issuance

This document constitutes issuance to:

Good Samaritan Hospital
375 DIXMYTH AVE
Cincinnati, OH 45220

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

Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Hamilton County Dept. of Environmental Services
250 William Howard Taft Pkwy.
Cincinnati, OH 45219-2660
(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

Chris Korleski
Director

Authorization (continued)

Permit Number: P0098084
Permit Description: Renewal for three 29.6 MMBtu/Hr Natural Gas. No. 2 Fuel Oil Fired Boilers issued under PTI 14-05152 issued 10/4/01.

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

Emissions Unit ID:	**B004**
Company Equipment ID:	Boiler #1
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**B005**
Company Equipment ID:	Boiler #2
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**B006**
Company Equipment ID:	Boiler #3
Superseded Permit Number:	
General Permit Category and Type:	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 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 Hamilton County Dept. of Environmental Services 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 being permanently shut down without first applying for and obtaining a permit pursuant to 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

C. Emissions Unit Terms and Conditions

1. B004, Boiler #1

Operations, Property and/or Equipment Description:

29.6 MMBtu/hr natural gas/ No. 2 fuel 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., d)(2), e)(1) and f)(1)a. through f)(1)e.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(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. 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)	Emissions from the combustion of natural gas: Particulate emissions (PE) and particulate matter emission 10 microns or less in diameter (PM10) shall not exceed 0.0017 lb/MMBtu. Sulfur dioxide (SO_2) emissions shall not exceed 0.00068 lb/MMBtu. Nitrogen oxides (NO_x) emissions shall not exceed 0.097 lb/mmBtu. Carbon monoxide (CO) emissions shall not exceed 0.081 lb/mmBtu. Volatile Organic compound (VOC) emissions shall not exceed 0.011 lb/mmBtu.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		Emissions from the combustion of number 2 fuel oil: Particulate emissions (PE) shall not exceed 0.015 lb/mmBtu. Sulfur dioxide (SO_2) emissions shall not exceed 0.51 lb/mmBtu. Nitrogen oxides (NO_x) emissions shall not exceed 0.14 lb/mmBtu. Carbon monoxide (CO) emissions shall not exceed 0.036 lb/mmBtu. Volatile organic compound (VOC) emissions shall not exceed 0.0041 lb/mmBtu. The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(D) and 3745-17-07(A)(1).
b.	OAC rule 3745-31-05(D)	24.90 tons per year (TPY) SO2*; 0.85 TPY PE/PM10*; 14.87 TPY NOx*; 10.57 TPY CO*; and, 1.38 TPY VOC*. See b)(2)b. * Based on a rolling, 12-month summation of the monthly emissions.
c.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from the boiler stack shall not exceed 20% opacity as a six-minute average, except as specified by rule.
d.	OAC rule 3745-17-10(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
e.	OAC rule 3745-18-06(D)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

a. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of No. 2 fuel oil, No. 2 fuel oil usage limitations and emission limitations.

b. The maximum annual No. 2 fuel oil usage for this emissions unit shall not exceed 700,000 gallons based upon a rolling, 12-month summation of the No. 2 fuel oil usage.

c. Natural gas emissions are based upon the emission unit's potential to emit. Therefore, recordkeeping is not required to ensure compliance with these emission limitations.

c) Operational Restrictions

(1) The permittee shall burn only natural gas and/or No. 2 fuel oil in this emissions unit.

(2) The quality of the No. 2 fuel oil burned in this emissions unit shall have a combination of sulfur content and heat content sufficient to meet the sulfur dioxide emission limitation of 0.51 lb/MMBtu of actual heat input.

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) The permittee shall maintain monthly records of the following information for this emissions unit:

a. The total No. 2 fuel oil usage for each month; and,

b. The rolling, 12-month summation of the No. 2 fuel oil usage figures.

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

e) Reporting Requirements

(1) 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:

The rolling,12-month summation of the No. 2 fuel oil usage figures.

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).

(2) The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:

a. the total quantity of oil received in each shipment (gallons);

b. the weighted* average sulfur content (percent by weight) for the oil received during each calendar month;

c. the weighted* average heat content (Btu/gallon) of the oil received during each calendar month; and

d. the weighted* average SO2 emission rate (lbs/MMBtu of actual heat input) of the oil combusted during each calendar month [the SO2 emission rate shall be calculated as specified in OAC 3745-18-04(F)].

*In proportion to the quantity of oil received in each shipment during each calendar month. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall cover the oil shipments received during the previous calendar quarters.

(3) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director 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. The permittee shall submit annual reports which specify the total NOx and SO2, emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following methods using emission factors from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.3, Tables 1.3-1 and 1.3-3 (9/98) and Section 1.4, Tables 1.4-1 and 1.4-2 (7/98) :

a. Emission Limitation(s):

When burning natural gas, particulate emissions shall not exceed 0.0017 lb/mmBtu of actual heat input.

When burning number 2 fuel oil, particulate emissions shall not exceed 0.015 lb/mmBtu of actual heat input.

0.85 TPY of PE/PM10 as a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method:

Compliance with the lb/mmBtu emission limitation when burning natural gas may be determined by the following equation:

0.028738 mmft3/hr (maximum hourly gas burning capacity of emissions unit) x 1.9 lbs of PE/10^6 scf (AP-42 Natural Gas Combustion emission factor) = 0.05 lb of PE/hr.

0.05 lb of PE/hr x hr/ 29.6 mmBtu = 0.0017 lb/mmBTU.

Compliance with the lb/mmBtu emission limitation when burning #2 fuel oil may be determined by converting the 2 lbs of PE/10^3 gal emission factor into lbs of PE/mmBtu by dividing by 140 mmBtu/10^3 gal.

Compliance with the rolling, 12-month summation of the monthly emissions may be determined by multiplying the rolling, 12-month summation of usages of #2 fuel oil, along with the annual natural gas usage by their respective emission factors as above.

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.

b. Emission Limitation(s):

When burning natural gas, sulfur dioxide (SO_2) emissions shall not exceed 0.00068 lb/mmBtu.

When burning number 2 fuel oil, sulfur dioxide (SO_2) emissions shall not exceed 0.51 lb/mmBtu.

24.90 TPY of SO2 as a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method:

Compliance with the lb/mmBtu emission limitation when burning natural gas may be determined by the following equation:

0.028738 mmft3/hr (maximum hourly gas burning capacity of emissions unit) x 0.6 lb of SO2/10^6 scf (AP-42 Natural Gas Combustion emission factor) = 0.02 lb of SO2/hr.

0.02 lb of SO2/hr x hr/ 29.6 mmBtu = 0.00068 lb of SO2/mmBTU.

Compliance with the lb/mmBtu emission limitation when burning #2 fuel oil may be determined by converting the 71 lbs of SO_2/10^3 gal emission factor into lbs of SO_2/mmBtu by dividing by 140 mmBtu/10^3 gal.

Compliance with the rolling, 12-month summation of the monthly emissions may be determined by multiplying the rolling, 12-month summation of usages of #2 fuel oil, along with the annual natural gas usages by their respective emission factors as above.

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.

c. Emission Limitation(s):

When burning natural gas, nitrogen oxides (NO_x) emissions shall not exceed 0.097 lb/mmBtu.

When burning number 2 fuel oil, nitrogen oxides (NO_x) emissions shall not exceed 0.14 lb/mmBtu.

14.87 TPY of NOx as a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method:

Compliance with the lb/mmBtu emission limitation when burning natural gas may be determined by the following equation:

0.028738 mmft3/hr (maximum hourly gas burning capacity of emissions unit) x 100 lbs of NOx/10^6 scf (AP-42 Natural Gas Combustion emission factor) = 2.87 lbs of NOx/hr.

2.87 lbs of NOx/hr x hr/ 29.6 mmBtu = 0.097 lb of NOx/mmBTU.

Compliance with the lb/mmBtu emission limitation when burning #2 fuel oil may be determined by converting the 20 lbs of NO_x/10^3 gal emission factor into lbs of NO_x/mmBtu by dividing by 140 mmBtu/10^3 gal. Compliance with the rolling, 12-month summation of the monthly emissions may be determined by multiplying the rolling, 12-month summation of usages of #2 fuel oil along with the annual natural gas usages by their respective emission factors as above.

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.

d. Emission Limitation(s):

When burning natural gas, carbon monoxide (CO) emissions shall not exceed 0.081 lb/mmBtu.

When burning number 2 fuel oil, carbon monoxide (CO) emissions shall not exceed 0.036 lb/mmBtu.*

10.57 TPY of CO as a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method:

Compliance with the lb/mmBtu emission limitation when burning natural gas may be determined by the following equation:

0.028738 mmft3/hr (maximum hourly gas burning capacity of emissions unit) x 84 lbs of CO/10^6 scf (AP-42 Natural Gas Combustion emission factor) = 2.41 lbs of CO/hr.

2.41 lb of CO/hr x hr/ 29.6 mmBtu = 0.081 lb of CO/mmBTU.

Compliance with the lb/mmBtu emission limitation when burning #2 fuel oil may be determined by converting the 5.0 lbs CO/10^3 gal emission factor into lbs CO/mmBtu by dividing by 140mmBtu/10^3 gal.

Compliance with the rolling, 12-month summation of the monthly emissions may be determined by multiplying the rolling, 12-month summation of usages of #2 fuel oil along with the annual natural gas usages by their respective emission factors as above.

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.

e. Emission Limitation(s):

When burning natural gas, volatile organic compound (VOC) emissions shall not exceed 0.011 lb/mmBtu.

When burning number 2 fuel oil, volatile organic compound (VOC) emissions shall not exceed 0.0041 lb/mmBtu.

1.38 TPY of OC as a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method:

Compliance with the lb/mmBtu emission limitation when burning natural gas may be determined by the following equation:

0.028738 mmft3/hr (maximum hourly gas burning capacity of emissions unit) x 11 lbs of VOC/10^6 scf (AP-42 Natural Gas Combustion emission factor) = 0.32 lb of VOC/hr.

0.32 lb of VOC/hr x hr/ 29.6 mmBtu = 0.011 lb of VOC/mmBTU.

Compliance with the lb/mmBtu emission limitation when burning #2 fuel oil may be determined by converting the 0.556 lbs OC/10^3 gal emission factor into lbs VOC/mmBtu by dividing by 140 mmBtu/10^3 gal.

Compliance with the rolling, 12-month summation of the monthly emissions may be determined by multiplying the rolling, 12-month summation of usages of #2 fuel oil along with the natural gas usages by their respective emission factors as above.

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.

f. Fuel Usage Limitation:

The #2 fuel oil usage for this emissions unit shall not exceed 700,000 gallons/year.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirement described in paragraph d)(1).

g. Visible Particulate Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20% opacity, as a six-minute average, except for one 6-minute period per hour.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

g) Miscellaneous Requirements

(1) None.

2. B005, Boiler #2

Operations, Property and/or Equipment Description:

29.6 MMBtu/hr natural gas/ No. 2 fuel 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., d)(2), e)(1) and f)(1)a. through f)(1)f.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(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. 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)	Emissions from the combustion of natural gas: Particulate emissions (PE) and particulate matter emission 10 microns or less in diameter (PM10) shall not exceed 0.0017 lb/MMBtu. Sulfur dioxide (SO_2) emissions shall not exceed 0.00068 lb/MMBtu. Nitrogen oxides (NO_x) emissions shall not exceed 0.097 lb/mmBtu. Carbon monoxide (CO) emissions shall not exceed 0.081 lb/mmBtu. Volatile organic compound (VOC) emissions shall not exceed 0.011 lb/mmBtu.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		Emissions from the combustion of number 2 fuel oil: Particulate emissions (PE) shall not exceed 0.015 lb/mmBtu. Sulfur dioxide (SO_2) emissions shall not exceed 0.51 lb/mmBtu. Nitrogen oxides (NO_x) emissions shall not exceed 0.14 lb/mmBtu. Carbon monoxide (CO) emissions shall not exceed 0.036 lb/mmBtu. Volatile organic compound (VOC) emissions shall not exceed 0.0041 lb/mmBtu. The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(D) and 3745-17-07(A)(1).
b.	OAC rule 3745-31-05(D)	24.90 tons per year (TPY) SO2*; 0.85 TPY PE/PM10*; 14.87 TPY NOx*; 10.57 TPY CO*; and, 1.38 TPY VOC*. See b)(2)b. * Based on a rolling, 12-month summation of the monthly emissions.
c.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from the boiler stack shall not exceed 20% opacity as a six-minute average, except as specified by rule.
d.	OAC rule 3745-17-10(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
e.	OAC rule 3745-18-06(D)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

a. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of No. 2 fuel oil, No. 2 fuel oil usage limitations and emission limitations.

b. The maximum annual No. 2 fuel oil usage for this emissions unit shall not exceed 700,000 gallons based upon a rolling, 12-month summation of the No. 2 fuel oil usage.

c. Natural gas emissions are based upon the emission unit's potential to emit. Therefore, recordkeeping is not required to ensure compliance with these emission limitations.

c) Operational Restrictions

(1) The permittee shall burn only natural gas and/or No. 2 fuel oil in this emissions unit.

(2) The quality of the No. 2 fuel oil burned in this emissions unit shall have a combination of sulfur content and heat content sufficient to meet the sulfur dioxide emission limitation of 0.51 lb/MMBtu of actual heat input.

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) The permittee shall maintain monthly records of the following information for this emissions unit:

a. The total No. 2 fuel oil usage for each month; and,

b. The rolling, 12-month summation of the No. 2 fuel oil usage figures.

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

e) Reporting Requirements

(1) 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:

The rolling,12-month summation of the No. 2 fuel oil usage figures.

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).

(2) The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:

a. the total quantity of oil received in each shipment (gallons);

b. the weighted* average sulfur content (percent by weight) for the oil received during each calendar month;

c. the weighted* average heat content (Btu/gallon) of the oil received during each calendar month; and

d. the weighted* average SO2 emission rate (lbs/MMBtu of actual heat input) of the oil combusted during each calendar month [the SO2 emission rate shall be calculated as specified in OAC 3745-18-04(F)].

*In proportion to the quantity of oil received in each shipment during each calendar month. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall cover the oil shipments received during the previous calendar quarters.

(3) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director 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. The permittee shall submit annual reports which specify the total NOx and SO2, emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following methods using emission factors from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.3, Tables 1.3-1 and 1.3-3 (9/98) and Section 1.4, Tables 1.4-1 and 1.4-2 (7/98) :

a. Emission Limitation(s):

When burning natural gas, particulate emissions shall not exceed 0.0017 lb/mmBtu of actual heat input.

When burning number 2 fuel oil, particulate emissions shall not exceed 0.015 lb/mmBtu of actual heat input.

0.85 TPY of PE/PM10 as a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method:

Compliance with the lb/mmBtu emission limitation when burning natural gas may be determined by the following equation:

0.028738 mmft3/hr (maximum hourly gas burning capacity of emissions unit) x 1.9 lbs of PE/10^6 scf (AP-42 Natural Gas Combustion emission factor) = 0.05 lb of PE/hr.

0.05 lb of PE/hr x hr/ 29.6 mmBtu = 0.0017 lb/mmBTU.

Compliance with the lb/mmBtu emission limitation when burning #2 fuel oil may be determined by converting the 2 lbs PE/10^3 gal emission factor into lbs of PE/mmBtu by dividing by 140 mmBtu/10^3 gal.

Compliance with the rolling, 12-month summation of the monthly emissions may be determined by multiplying the rolling, 12-month summation of usages of #2 fuel oil, along with the natural gas usages by their respective emission factors as above.

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.

b. Emission Limitation(s):

When burning natural gas, sulfur dioxide (SO_2) emissions shall not exceed 0.00068 lb/mmBtu.

When burning number 2 fuel oil, sulfur dioxide (SO_2) emissions shall not exceed 0.51 lb/mmBtu.

24.90 TPY of SO2 as a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method:

Compliance with the lb/mmBtu emission limitation when burning natural gas may be determined by the following equation:

0.028738 mmft3/hr (maximum hourly gas burning capacity of emissions unit) x 0.6 lb of SO2/10^6 scf (AP-42 Natural Gas Combustion emission factor) = 0.02 lb of SO2/hr.

0.02 lb of SO2/hr x hr/ 29.6 mmBtu = 0.00068 lb of SO2/mmBTU.

Compliance with the lb/mmBtu emission limitation when burning #2 fuel oil may be determined by converting the 71 lbs of SO_2/10^3 gal emission factor into lbs SO_2/mmBtu by dividing by 140 mmBtu/10^3 gal.

Compliance with the rolling, 12-month summation of the monthly emissions may be determined by multiplying the rolling, 12-month summation of usages of #2 fuel oil along with the annual natural gas usages by their respective emission factors as above.

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.

c. Emission Limitation(s):

When burning natural gas, nitrogen oxides (NO_x) emissions shall not exceed 0.097 lb/mmBtu.

When burning number 2 fuel oil, nitrogen oxides (NO_x) emissions shall not exceed 0.14 lb/mmBtu.

14.87 TPY of NOx as a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method:

Compliance with the lb/mmBtu emission limitation when burning natural gas may be determined by the following equation:

0.028738 mmft3/hr (maximum hourly gas burning capacity of emissions unit) x 100 lbs of NOx/10^6 scf (AP-42 Natural Gas Combustion emission factor) = 2.87 lbs of NOx/hr.

2.87 lbs of NOx/hr x hr/ 29.6 mmBtu = 0.097 lb of NOx/mmBTU.

Compliance with the lb/mmBtu emission limitation when burning #2 fuel oil may be determined by converting the 20 lbs NO_x/10^3 gal emission factor into lbs of NO_x/mmBtu by dividing by 140 mmBtu/10^3 gal. Compliance with the rolling, 12-month summation of the monthly emissions may be determined by multiplying the rolling, 12-month summation of usages of #2 fuel oil along with the annual natural gas usages by their respective emission factors as above.

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.

d. Emission Limitation(s):

When burning natural gas, carbon monoxide (CO) emissions shall not exceed 0.081 lb/mmBtu.

When burning number 2 fuel oil, carbon monoxide (CO) emissions shall not exceed 0.036 lb/mmBtu.*

10.57 TPY of CO as a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method:

Compliance with the lb/mmBtu emission limitation when burning natural gas may be determined by the following equation:

0.028738 mmft3/hr (maximum hourly gas burning capacity of emissions unit) x 84 lbs of CO/10^6 scf (AP-42 Natural Gas Combustion emission factor) = 2.41 lbs of CO/hr.

2.41 lb of CO/hr x hr/ 29.6 mmBtu = 0.081 lb of CO/mmBTU.

Compliance with the lb/mmBtu emission limitation when burning #2 fuel oil may be determined by converting the 5.0 lbs of CO/10^3 gal emission factor into lbs of CO/mmBtu by dividing by 140mmBtu/10^3 gal.

Compliance with the rolling, 12-month summation of the monthly emissions may be determined by multiplying the rolling, 12-month summation of usages of #2 fuel oil along with the annual natural gas usages by their respective emission factors as above.

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.

e. Emission Limitation(s):

When burning natural gas, volatile organic compound (VOC) emissions shall not exceed 0.011 lb/mmBtu.

When burning number 2 fuel oil, volatile organic compound (VOC) emissions shall not exceed 0.0041 lb/mmBtu.

1.38 TPY of VOC as a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method:

Compliance with the lb/mmBtu emission limitation when burning natural gas may be determined by the following equation:

0.028738 mmft3/hr (maximum hourly gas burning capacity of emissions unit) x 11 lbs of VOC/10^6 scf (AP-42 Natural Gas Combustion emission factor) = 0.32 lb of VOC/hr.

0.32 lb of VOC/hr x hr/ 29.6 mmBtu = 0.011 lb of VOC/mmBTU.

Compliance with the lb/mmBtu emission limitation when burning #2 fuel oil may be determined by converting the 0.556 lbs of OC/10^3 gal emission factor into lbs of VOC/mmBtu by dividing by 140 mmBtu/10^3 gal.

Compliance with the rolling, 12-month summation of the monthly emissions may be determined by multiplying the rolling, 12-month summation of usages of #2 fuel oil along with the annual natural gas usages by their respective emission factors as above.

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.

f. Fuel Usage Limitation:

The #2 fuel oil usage for this emissions unit shall not exceed 700,000 gallons/year

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirement described in paragraph d)(1).

g. Visible Particulate Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20% opacity, as a six-minute average, except for one 6-minute period per hour.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

g) Miscellaneous Requirements

(1) None.

3. B006, Boiler #3

Operations, Property and/or Equipment Description:

29.6 MMBtu/hr natural gas/ No. 2 fuel 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., d)(2), e)(1) and f)(1)a. through f)(1)f.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(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. 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)	Emissions from the combustion of natural gas: Particulate emissions (PE) and particulate matter emission 10 microns or less in diameter (PM10) shall not exceed 0.0017 lb/MMBtu. Sulfur dioxide (SO_2) emissions shall not exceed 0.00068 lb/MMBtu. Nitrogen oxides (NO_x) emissions shall not exceed 0.097 lb/mmBtu. Carbon monoxide (CO) emissions shall not exceed 0.081 lb/mmBtu. Volatile organic compound (VOC) emissions shall not exceed 0.011 lb/mmBtu.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		Emissions from the combustion of number 2 fuel oil: Particulate emissions (PE) shall not exceed 0.015 lb/mmBtu. Sulfur dioxide (SO_2) emissions shall not exceed 0.51 lb/mmBtu. Nitrogen oxides (NO_x) emissions shall not exceed 0.14 lb/mmBtu. Carbon monoxide (CO) emissions shall not exceed 0.036 lb/mmBtu. Volatile organic compound (VOC) emissions shall not exceed 0.0041 lb/mmBtu. The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(D) and 3745-17-07(A)(1).
b.	OAC rule 3745-31-05(D)	24.90 tons per year (TPY) SO2*; 0.85 TPY PE/PM10*; 14.87 TPY NOx*; 10.57 TPY CO*; and, 1.38 TPY VOC*. See b)(2)b. * Based on a rolling, 12-month summation of the monthly emissions.
c.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from the boiler stack shall not exceed 20% opacity as a six-minute average, except as specified by rule.
d.	OAC rule 3745-17-10(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
e.	OAC rule 3745-18-06(D)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

a. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of No. 2 fuel oil, No. 2 fuel oil usage limitations and emission limitations.

b. The maximum annual No. 2 fuel oil usage for this emissions unit shall not exceed 700,000 gallons based upon a rolling, 12-month summation of the No. 2 fuel oil usage.

c. Natural gas emissions are based upon the emission unit's potential to emit. Therefore, recordkeeping is not required to ensure compliance with these emission limitations.

c) Operational Restrictions

(1) The permittee shall burn only natural gas and/or No. 2 fuel oil in this emissions unit.

(2) The quality of the No. 2 fuel oil burned in this emissions unit shall have a combination of sulfur content and heat content sufficient to meet the sulfur dioxide emission limitation of 0.51 lb/MMBtu of actual heat input.

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) The permittee shall maintain monthly records of the following information for this emissions unit:

a. The total No. 2 fuel oil usage for each month; and,

b. The rolling, 12-month summation of the No. 2 fuel oil usage figures.

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

e) Reporting Requirements

(1) 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:

The rolling,12-month summation of the No. 2 fuel oil usage figures.

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).

(2) The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:

a. the total quantity of oil received in each shipment (gallons);

b. the weighted* average sulfur content (percent by weight) for the oil received during each calendar month;

c. the weighted* average heat content (Btu/gallon) of the oil received during each calendar month; and

d. the weighted* average SO2 emission rate (lbs/MMBtu of actual heat input) of the oil combusted during each calendar month [the SO2 emission rate shall be calculated as specified in OAC 3745-18-04(F)].

*In proportion to the quantity of oil received in each shipment during each calendar month. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall cover the oil shipments received during the previous calendar quarters.

(3) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director 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. The permittee shall submit annual reports which specify the total NOx and SO2, emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following methods using emission factors from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.3, Tables 1.3-1 and 1.3-3 (9/98) and Section 1.4, Tables 1.4-1 and 1.4-2 (7/98) :

a. Emission Limitation(s):

When burning natural gas, particulate emissions shall not exceed 0.0017 lb/mmBtu of actual heat input.

When burning number 2 fuel oil, particulate emissions shall not exceed 0.015 lb/mmBtu of actual heat input.

0.85 TPY of PE/PM10 as a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method:

Compliance with the lb/mmBtu emission limitation when burning natural gas may be determined by the following equation:

0.028738 mmft3/hr (maximum hourly gas burning capacity of emissions unit) x 1.9 lbs of PE/10^6 scf (AP-42 Natural Gas Combustion emission factor) = 0.05 lb of PE/hr.

0.05 lb of PE/hr x hr/ 29.6 mmBtu = 0.0017 lb/mmBTU.

Compliance with the lb/mmBtu emission limitation when burning #2 fuel oil may be determined by converting the 2 lbs PE/10^3 gal emission factor into lbs of PE/mmBtu by dividing by 140 mmBtu/10^3 gal.

Compliance with the rolling, 12-month summation of the monthly emissions may be determined by multiplying the rolling, 12-month summation of usages of #2 fuel oil along with the annual natural gas usages by their respective emission factors as above.

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.

b. Emission Limitation(s):

When burning natural gas, sulfur dioxide (SO_2) emissions shall not exceed 0.00068 lb/mmBtu.

When burning number 2 fuel oil, sulfur dioxide (SO_2) emissions shall not exceed 0.51 lb/mmBtu.

24.90 TPY of SO2 as a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method:

Compliance with the lb/mmBtu emission limitation when burning natural gas may be determined by the following equation:

0.028738 mmft3/hr (maximum hourly gas burning capacity of emissions unit) x 0.6 lb of SO2/10^6 scf (AP-42 Natural Gas Combustion emission factor) = 0.02 lb of SO2/hr.

0.02 lb of SO2/hr x hr/ 29.6 mmBtu = 0.00068 lb of SO2/mmBTU.

Compliance with the lb/mmBtu emission limitation when burning #2 fuel oil may be determined by converting the 71 lbs SO_2/10^3 gal emission factor into lbs SO_2/mmBtu by dividing by 140 mmBtu/10^3 gal.

Compliance with the rolling, 12-month summation of the monthly emissions may be determined by multiplying the rolling, 12-month summation of usages of #2 fuel oil along with the annual natural gas usages by their respective emission factors as above.

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.

c. Emission Limitation(s):

When burning natural gas, nitrogen oxides (NO_x) emissions shall not exceed 0.097 lb/mmBtu.

When burning number 2 fuel oil, nitrogen oxides (NO_x) emissions shall not exceed 0.14 lb/mmBtu.

14.87 TPYof NOx as a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method:

Compliance with the lb/mmBtu emission limitation when burning natural gas may be determined by the following equation:

0.028738 mmft3/hr (maximum hourly gas burning capacity of emissions unit) x 100 lbs of NOx/10^6 scf (AP-42 Natural Gas Combustion emission factor) = 2.87 lbs of NOx/hr.

2.87 lbs of NOx/hr x hr/ 29.6 mmBtu = 0.097 lb of NOx/mmBTU.

Compliance with the lb/mmBtu emission limitation when burning #2 fuel oil may be determined by converting the 20 lbs $NO_x/10^3$ gal emission factor into lbs NO_x/mmBtu by dividing by 140 mmBtu/10^3 gal. Compliance with the rolling, 12-month summation of the monthly emissions may be determined by multiplying the rolling, 12-month summation of usages of #2 fuel oil along with the annual natural gas usages by their respective emission factors as above.

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.

d. Emission Limitation(s):

When burning natural gas, carbon monoxide (CO) emissions shall not exceed 0.081 lb/mmBtu.

When burning number 2 fuel oil, carbon monoxide (CO) emissions shall not exceed 0.036 lb/mmBtu.*

10.57 TPY of CO as a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method:

Compliance with the lb/mmBtu emission limitation when burning natural gas may be determined by the following equation:

0.028738 mmft3/hr (maximum hourly gas burning capacity of emissions unit) x 84 lbs of CO/10^6 scf (AP-42 Natural Gas Combustion emission factor) = 2.41 lbs of CO/hr.

2.41 lb of CO/hr x hr/ 29.6 mmBtu = 0.081 lb of CO/mmBTU.

Compliance with the lb/mmBtu emission limitation when burning #2 fuel oil may be determined by converting the 5.0 lbs CO/10^3 gal emission factor into lbs CO/mmBtu by dividing by 140mmBtu/10^3 gal.

Compliance with the rolling, 12-month summation of the monthly emissions may be determined by multiplying the rolling, 12-month summation of usages of #2 fuel oil along with the annual natural gas usages by their respective emission factors as above.

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.

e. Emission Limitation(s):

When burning natural gas, volatile organic compound (VOC) emissions shall not exceed 0.011 lb/mmBtu.

When burning number 2 fuel oil, volatile organic compound (VOC) emissions shall not exceed 0.0041 lb/mmBtu.

1.38 TPY of OC as a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method:

Compliance with the lb/mmBtu emission limitation when burning natural gas may be determined by the following equation:

0.028738 mmft3/hr (maximum hourly gas burning capacity of emissions unit) x 11 lbs of VOC/10^6 scf (AP-42 Natural Gas Combustion emission factor) = 0.32 lb of VOC/hr.

0.32 lb of VOC/hr x hr/ 29.6 mmBtu = 0.011 lb of VOC/mmBTU.

Compliance with the lb/mmBtu emission limitation when burning #2 fuel oil may be determined by converting the 0.556 lbs OC/10^3 gal emission factor into lbs of VOC/mmBtu by dividing by 140 mmBtu/10^3 gal.

Compliance with the rolling, 12-month summation of the monthly emissions may be determined by multiplying the rolling, 12-month summation of usages of #2 fuel oil along with the annual natural gas usages by their respective emission factors as above.

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.

f. Fuel Usage Limitation:

The #2 fuel oil usage for this emissions unit shall not exceed 700,000 gallons/year

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirement described in paragraph d)(1).

g. Visible Particulate Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20% opacity, as a six-minute average, except for one 6-minute period per hour.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

g) Miscellaneous Requirements

(1) None.