



State of Ohio Environmental Protection Agency

STREET ADDRESS:

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50 W. Town St., Suite 700
Columbus, Ohio 43215

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www.epa.state.oh.us

MAILING ADDRESS:

P.O. Box 1049
Columbus, OH 43216-1049

6/5/2009

Earl Gregory
Amylin Ohio LLC
8814 Trade Port Drive
West Chester, OH 45071

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 1409040987
Permit Number: P0104957
Permit Type: Renewal
County: Butler

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR
No	CEMS
No	MACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED

Dear Permit Holder:

Enclosed please find a final 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.

Ohio EPA maintains a document entitled "Frequently Asked Questions about the PTIO". The document can be downloaded from the DAPC Web page, www.epa.state.oh.us/dapc, from the "Permits" link. This document contains additional information related to your permit, such as what activities are covered under the PTIO, who has enforcement authority over the permit and Ohio EPA's authorization to inspect your facility and records. Please contact the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469 if you need assistance.

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission ("ERAC") under Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and describe the action complained of and the grounds for the appeal. The appeal must be filed with the ERAC within thirty (30) days after notice of the Director's action. A filing fee of \$70.00 must be submitted to the ERAC with the appeal, although the ERAC, has discretion to reduce the amount of the filing fee if you can demonstrate (by affidavit) that payment of the full amount of the fee would cause extreme hardship. If you file an appeal of this action, you must notify Ohio EPA of the filing of the appeal (by providing a copy to the Director) within three (3) days of filing your appeal with the ERAC. Ohio EPA requests that a copy of the appeal also be provided to the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the ERAC at the following address:

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

If you have any questions regarding this permit, please contact the Hamilton County Dept. of Environmental Services. This permit has been posted to the Division of Air Pollution Control (DAPC) Web page www.epa.state.oh.us/dapc.

Sincerely,

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

Cc: HCDOES

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



**State of Ohio Environmental Protection Agency
Division of Air Pollution Control**

FINAL

**Air Pollution Permit-to-Install and Operate
for
Amylin Ohio LLC**

Facility ID: 1409040987
Permit Number: P0104957
Permit Type: Renewal
Issued: 6/5/2009
Effective: 6/5/2009
Expiration: 6/5/2014



Air Pollution Permit-to-Install and Operate
for
Amylin Ohio LLC

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Division of Air Pollution Control

Final Permit-to-Install and Operate
Permit Number: P0104957
Facility ID: 1409040987
Effective Date: 6/5/2009

Authorization

Facility ID: 1409040987
Application Number(s): A0036886
Permit Number: P0104957
Permit Description: This is a PTIO after a PTI that was issued 12/13/2007. The application came in as an initial with emission units B005 and B006 included. In fact, it was a PTIO after PTI except for B005 & B006 which were initials. We separated B005 and B006 out to their own initial PTIO. This PTIO is for three 350 HP dual fuel steam boilers (B002, B003 & B004), two 300 HP dual fuel hot water boilers (B007 & B008) and three emergency generatore (P002, P003 & P004).
Permit Type: Renewal
Permit Fee: \$0.00
Issue Date: 6/5/2009
Effective Date: 6/5/2009
Expiration Date: 6/5/2014
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

Amylin Ohio LLC
8814 Trade Port Drive
West Chester, OH 45071

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: P0104957
 Permit Description: This is a PTIO after a PTI that was issued 12/13/2007. The application came in as an initial with emission units B005 and B006 included. In fact, it was a PTIO after PTI except for B005 & B006 which were initials. We separated B005 and B006 out to their own initial PTIO. This PTIO is for three 350 HP dual fuel steam boilers (B002, B003 & B004), two 300 HP dual fuel hot water boilers (B007 & B008) and three emergency generators (P002, P003 & P004).

Permits for the following emissions unit(s) or groups of emissions units are in this document as indicated below:

Emissions Unit ID:	B002
Company Equipment ID:	Cleaver Brooks dual fuel Boiler
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	B003
Company Equipment ID:	Cleaver Brooks dual fuel Boiler
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	B004
Company Equipment ID:	Cleaver Brooks dual fuel Boiler
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	B007
Company Equipment ID:	Hot water boiler
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	B008
Company Equipment ID:	Hot water boiler No.
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P002
Company Equipment ID:	Emerg Gen. No. 1
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P003
Company Equipment ID:	Emergency Gen. No. 2
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P004
Company Equipment ID:	Emerg. Gen. No. 3
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable



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Permit Number: P0104957

Facility ID: 1409040987

Effective Date: 6/5/2009

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



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install and Operate

Permit Number: P0104957

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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.



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install and Operate

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B. Facility-Wide Terms and Conditions



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install and Operate

Permit Number: P0104957

Facility ID: 1409040987

Effective Date: 6/5/2009

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.



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install and Operate

Permit Number: P0104957

Facility ID: 1409040987

Effective Date: 6/5/2009

C. Emissions Unit Terms and Conditions



1. B002, Cleaver Brooks dual fuel Boiler

Operations, Property and/or Equipment Description:

Steam Boiler No. 1 - 350 HP Cleaver Brooks dual fuel 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)e. ,d)(3) and e)(4)
- 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(E)	See b)(2)a.
b.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack serving this emissions unit shall not exceed 20% opacity, as a six-minute average, except as specified by rule.
c.	OAC rule 3745-17-10(B)(1)	Particulate emissions (PE) shall not exceed 0.020 pound per mmBtu of actual heat input.
d.	OAC rule 3745-18-06(E)	When burning No. 2 fuel oil, the emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(E).
e.	40 CFR Part 60 Subpart Dc	The emission limitations specified by this rule are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(E).
f.	OAC rule 3745-31-05(A)(3)(b)	See b)(2)c.



(2) Additional Terms and Conditions

- a. This PTIO for this air contaminant source takes into account the following restrictions (including the use of any air pollution control equipment) as proposed by the permittee for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3):
 - i. for sulfur dioxide (SO₂) emissions: the permittee will only use either natural gas or No. 2 fuel oil and/or diesel fuel with a sulfur content not to exceed 0.05 percent.
- b. The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency (U.S. EPA), 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency (Ohio EPA).
- c. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the Particulate Emissions (PE), Particulate Matter ten microns and less in diameter (PM₁₀), Nitrogen Oxides (NO_x), Carbon Monoxide (CO) and Volatile Organic Compound (VOC) emissions from this air contaminant source since the uncontrolled potential to emit for PE, PM₁₀, NO_x, CO, and VOC is less than ten tons per year.
- d. The PE limitation specified in b)(1) is greater than the emission unit's potential to emit. Therefore, no monitoring, record keeping, and reporting requirements are necessary to ensure ongoing compliance with this emission limitation.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the quantity and type of fuel combusted in this emissions unit.
- (2) The permittee shall collect and record the following information annually for the purpose of determining annual SO₂ emissions:
 - a. The total number of gallons of Number 2 fuel oil and diesel fuel combusted;
 - b. The total quantity of natural gas combusted in mmcf; and
 - c. The total SO₂ emissions from all fuels combusted, in tons, using the calculation methods provided in f)(1) and the actual amounts as recorded in c)(2)a. and c)(2)b.
- (3) Pursuant to NSPS 40 CFR Part 60.42c(h), the permittee shall maintain oil supplier certifications for the fuel oil received for burning in this emissions unit that contain the following information:
 - a. The name of the oil supplier;



- b. A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil pursuant to 40 CFR Part 60.41c; and
- c. The sulfur content of the oil, in weight percent.

e) Reporting Requirements

- (1) 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.
- (2) The permittee shall identify in the annual permit evaluation report any exceedance of the allowable sulfur dioxide emission limitation and pounds sulfur dioxide/mmBtu actual heat input.
- (3) The permittee shall notify Hamilton County Department of Environmental Services in writing of any fuel burned in this emissions unit other than natural gas or Number 2 fuel oil or diesel fuel. The notification shall include a copy of such record and shall be sent to Hamilton County Department of Environmental Services within 45 days after the deviation occurs.
- (4) The permittee shall submit to the Hamilton County Department of Environmental Services, on a quarterly basis, copies of the oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) of each shipment of oil.

These quarterly reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall cover the oil shipments received during the previous calendar quarters.

f) Testing Requirements

- (1) Emission Limitation:

Particulate emissions shall not exceed 0.020 pound per mmBtu of actual heat input.

Applicable Compliance Method:

For the use of natural gas, compliance shall be determined by multiplying the hourly gas burning capacity of the emissions unit (mm cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 7.6 lbs of total PM/mm cu. ft, and then dividing by the maximum hourly heat input of the emissions unit (mmBtu/hr).

For the use of Number 2 fuel oil, compliance shall be determined by multiplying the hourly fuel oil burning capacity of the emissions unit (in 1000 gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 2 lbs of PM/1000 gallons, and then dividing by the maximum hourly heat input of the emissions unit (mmBtu/hr).



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.

(2) Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as specified by rule.

Applicable Compliance Method:

If required, 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).

(3) Emission Limitation:

The potential to emit is less than 10.0 tons per year of SO₂ based on a voluntary fuel oil sulfur content restriction of 0.05 weight percent.

Applicable Compliance Method:

The annual SO₂ emission rate is based on a voluntary restriction on the potential to emit established through OAC rule 3745-31-05(C) from the combustion of Number 2 fuel oil or diesel fuel. The annual SO₂ emission rate for both the combustion of natural gas and fuel oil usage was calculated by the following equations using the information submitted by the permittee in PTI Application 14-05957, submitted on June 28, 2007:

For natural gas combustion:

$$E = \text{heat input capacity of } 14.3 \text{ mmBtu/hour} \times 0.0006 \text{ lbs SO}_2/\text{mmBtu per AP-42 Table 1.4-2 for natural gas combustion} \times 8760 \text{ hours}/(2000)]; \text{ and}$$

For Number 2 fuel oil combustion:

$$E = 7.1 \text{ lbs SO}_2/1000 \text{ gals per AP-42 Table 1.3-1 for fuel oil combustion} \times 102.1 \text{ gallons fuel oil per hour} \times 8760 \text{ hours/year}/(2000)];$$

where E = Emission Rate (tons per year).

(4) Emission Limitation:

The uncontrolled potential to emit is less than 10.0 tons per year PE/PM₁₀.

Applicable Compliance Method:

The annual PE/PM₁₀ emission rate is based on this emission unit's uncontrolled potential to emit from the combustion of natural gas or Number 2 fuel oil or diesel fuel. PM₁₀ emissions shall be assumed to be equivalent to PE. The annual PE/PM₁₀ emission rates were calculated by the following equations using the information submitted by the permittee in PTI Application 14-05957, submitted on June 28, 2007:



For natural gas combustion:

$E = \text{heat input capacity of } 14.3 \text{ mmBtu/hour} \times 0.007 \text{ lbs PE/mmBtu per AP-42 Table 1.4-2 for natural gas combustion} \times 8760 \text{ hours}/(2000)]; \text{ and}$

For Number 2 fuel oil or diesel combustion:

$E = 2 \text{ lbs PM}/1000 \text{ gals per AP-42 Table 1.3-1 for fuel oil combustion} \times 102.1 \text{ gallons fuel oil per hour} \times 8760 \text{ hours/year}/(2000)];$

where E = Emission Rate (tons per year).

(5) Emission Limitation:

The uncontrolled potential to emit is less than 10.0 tons per year VOC.

Applicable Compliance Method:

The annual VOC emission rate is based on this emission unit's uncontrolled potential to emit from the combustion of natural gas or Number 2 fuel oil or diesel fuel. The annual VOC emission rate was calculated by the following equations using the information submitted by the permittee in PTI Application 14-05957, submitted on June 28, 2007:

For natural gas combustion:

$E = \text{heat input capacity of } 14.3 \text{ mmBtu/hour} \times 0.011 \text{ lbs VOC/mmBtu per AP-42 Table 1.4-2 for natural gas combustion} \times 8760 \text{ hours}/(2000)]; \text{ and}$

For Number 2 fuel oil combustion:

$E = 0.252 \text{ lbs TOC}/1000 \text{ gals per AP-42 Table 1.3-3 for fuel oil combustion} \times 102.1 \text{ gallons fuel oil per hour} \times 8760 \text{ hours/year}/(2000)];$

where E = Emission Rate (tons per year).

(6) Emission Limitation:

The uncontrolled potential to emit is less than 10.0 tons per year of CO.

Applicable Compliance Method:

The annual CO emission rate is based on this emission unit's uncontrolled potential to emit from the combustion of natural gas or Number 2 fuel oil or diesel fuel. The annual CO emission rate was calculated by the following equations using the information submitted by the permittee in PTI Application 14-05957, submitted on June 28, 2007:

For natural gas combustion:

$E = \text{heat input capacity of } 14.3 \text{ mmBtu/hour} \times 0.082 \text{ lb CO/mmBtu per AP-42 Table 1.4-1 for natural gas combustion} \times 8760 \text{ hours}/(2000)]; \text{ and}$

For Number 2 fuel oil combustion:



$E = 5 \text{ lbs CO}/1000 \text{ gals per AP-42 Table 1.3-1 for fuel oil combustion} \times 102.1 \text{ gallons fuel oil per hour} \times 8760 \text{ hours/year}/(2000)];$

where E = Emission Rate (tons per year).

(7) Emission Limitation:

The uncontrolled potential to emit is less than 10.0 tons per year of NOx.

Applicable Compliance Method:

The annual NOx emission rate is based on this emission unit's uncontrolled potential to emit from the combustion of natural gas or Number 2 fuel oil or diesel fuel. The annual uncontrolled NOx emission rate was calculated by the following equations using the information submitted by the permittee in PTI Application 14-05957, submitted on June 28, 2007:

For natural gas combustion:

$E = \text{heat input capacity of } 14.3 \text{ mmBtu}/\text{hour} \times 0.098 \text{ lb NOx}/\text{mmBtu per AP-42 Table 1.4-1 for natural gas combustion} \times 8760 \text{ hours}/(2000)];$ and

For Number 2 fuel oil combustion:

$E = 20 \text{ lbs NOx}/1000 \text{ gals per AP-42 Table 1.3-1 for fuel oil combustion} \times 102.1 \text{ gallons fuel oil per hour} \times 8760 \text{ hours/year}/(2000)];$

where E = Emission Rate (tons per year).

(8) Emission Limitation:

The sulfur content of the fuel oil shall not exceed 0.05 percent by weight.

Applicable Compliance Method:

Compliance with the fuel oil sulfur content limitation shall be demonstrated by the record of the fuel supplier certification required in d)(3).

g) Miscellaneous Requirements

- (1) None.



2. B003, Cleaver Brooks dual fuel Boiler

Operations, Property and/or Equipment Description:

Steam boiler No. 2 - 350 HP Cleaver Brooks dual fuel 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)e. ,d)(3) and e)(4)
- 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(E)	See b)(2)a.
b.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack serving this emissions unit shall not exceed 20% opacity, as a six-minute average, except as specified by rule.
c.	OAC rule 3745-17-10(B)(1)	Particulate emissions (PE) shall not exceed 0.020 pound per mmBtu of actual heat input.
d.	OAC rule 3745-18-06(E)	When burning No. 2 fuel oil, the emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(E).
e.	40 CFR Part 60 Subpart Dc	The emission limitations specified by this rule are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(E).
f.	OAC rule 3745-31-05(A)(3)(b)	See b)(2)c.



(2) Additional Terms and Conditions

a. This PTIO for this air contaminant source takes into account the following restrictions (including the use of any air pollution control equipment) as proposed by the permittee for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3):

i. for sulfur dioxide (SO₂) emissions: the permittee will only use either natural gas or No. 2 fuel oil and/or diesel fuel with a sulfur content not to exceed 0.05 percent.

b. The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency (U.S. EPA), 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency (Ohio EPA).

c. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the Particulate Emissions (PE), Particulate Matter ten microns and less in diameter (PM₁₀), Nitrogen Oxides (NO_x), Carbon Monoxide (CO) and Volatile Organic Compound (VOC) emissions from this air contaminant source since the uncontrolled potential to emit for PE, PM₁₀, NO_x, CO, and VOC is less than ten tons per year.

The PE limitation specified in b)(1) is greater than the emission unit's potential to emit. Therefore, no monitoring, record keeping, and reporting requirements are necessary to ensure ongoing compliance with this emission limitation.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain monthly records of the quantity and type of fuel combusted in this emissions unit.

(2) The permittee shall collect and record the following information annually for the purpose of determining annual SO₂ emissions:

- a. The total number of gallons of Number 2 fuel oil and diesel fuel combusted;
- b. The total quantity of natural gas combusted in mmcf; and
- c. The total SO₂ emissions from all fuels combusted, in tons, using the calculation methods provided in f)(1) and the actual amounts as recorded in c)(2)a. and c)(2)b.

(3) Pursuant to NSPS 40 CFR Part 60.42c(h), the permittee shall maintain oil supplier certifications for the fuel oil received for burning in this emissions unit that contain the following information:

a. The name of the oil supplier;



- b. A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil pursuant to 40 CFR Part 60.41c; and
- c. The sulfur content of the oil, in weight percent.

e) Reporting Requirements

- (1) 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.
- (2) The permittee shall identify in the annual permit evaluation report any exceedance of the allowable sulfur dioxide emission limitation and pounds sulfur dioxide/mmBtu actual heat input.
- (3) The permittee shall notify Hamilton County Department of Environmental Services in writing of any fuel burned in this emissions unit other than natural gas or Number 2 fuel oil or diesel fuel. The notification shall include a copy of such record and shall be sent to Hamilton County Department of Environmental Services within 45 days after the deviation occurs.
- (4) The permittee shall submit to the Hamilton County Department of Environmental Services, on a quarterly basis, copies of the oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) of each shipment of oil.

These quarterly reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall cover the oil shipments received during the previous calendar quarters.

f) Testing Requirements

- (1) Emission Limitation:

Particulate emissions shall not exceed 0.020 pound per mmBtu of actual heat input.

Applicable Compliance Method:

For the use of natural gas, compliance shall be determined by multiplying the hourly gas burning capacity of the emissions unit (mm cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 7.6 lbs of total PM/mm cu. ft, and then dividing by the maximum hourly heat input of the emissions unit (mmBtu/hr).

For the use of Number 2 fuel oil, compliance shall be determined by multiplying the hourly fuel oil burning capacity of the emissions unit (in 1000 gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 2 lbs of PM/1000 gallons, and then dividing by the maximum hourly heat input of the emissions unit (mmBtu/hr).



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.

(2) Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as specified by rule.

Applicable Compliance Method:

If required, 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).

(3) Emission Limitation:

The potential to emit is less than 10.0 tons per year of SO₂ based on a voluntary fuel oil sulfur content restriction of 0.05 weight percent.

Applicable Compliance Method:

The annual SO₂ emission rate is based on a voluntary restriction on the potential to emit established through OAC rule 3745-31-05(C) from the combustion of Number 2 fuel oil or diesel fuel. The annual SO₂ emission rate for both the combustion of natural gas and fuel oil usage was calculated by the following equations using the information submitted by the permittee in PTI Application 14-05957, submitted on June 28, 2007:

For natural gas combustion:

$E = \text{heat input capacity of } 14.3 \text{ mmBtu/hour} \times 0.0006 \text{ lbs SO}_2/\text{mmBtu per AP-42 Table 1.4-2 for natural gas combustion} \times 8760 \text{ hours}/(2000)]; \text{ and}$

For Number 2 fuel oil combustion:

$E = 7.1 \text{ lbs SO}_2/1000 \text{ gals per AP-42 Table 1.3-1 for fuel oil combustion} \times 102.1 \text{ gallons fuel oil per hour} \times 8760 \text{ hours/year}/(2000)];$

where E = Emission Rate (tons per year).

(4) Emission Limitation:

The uncontrolled potential to emit is less than 10.0 tons per year PE/PM₁₀.

Applicable Compliance Method:

The annual PE/PM₁₀ emission rate is based on this emission unit's uncontrolled potential to emit from the combustion of natural gas or Number 2 fuel oil or diesel fuel. PM₁₀ emissions shall be assumed to be equivalent to PE. The annual PE/PM₁₀ emission rates were calculated by the following equations using the information submitted by the permittee in PTI Application 14-05957, submitted on June 28, 2007:

For natural gas combustion:



$E = \text{heat input capacity of } 14.3 \text{ mmBtu/hour} \times 0.007 \text{ lbs PE/mmBtu per AP-42 Table 1.4-2 for natural gas combustion} \times 8760 \text{ hours}/(2000)]; \text{ and}$

For Number 2 fuel oil or diesel combustion:

$E = 2 \text{ lbs PM}/1000 \text{ gals per AP-42 Table 1.3-1 for fuel oil combustion} \times 102.1 \text{ gallons fuel oil per hour} \times 8760 \text{ hours/year}/(2000)];$

where E = Emission Rate (tons per year).

(5) Emission Limitation:

The uncontrolled potential to emit is less than 10.0 tons per year VOC.

Applicable Compliance Method:

The annual VOC emission rate is based on this emission unit's uncontrolled potential to emit from the combustion of natural gas or Number 2 fuel oil or diesel fuel. The annual VOC emission rate was calculated by the following equations using the information submitted by the permittee in PTI Application 14-05957, submitted on June 28, 2007:

For natural gas combustion:

$E = \text{heat input capacity of } 14.3 \text{ mmBtu/hour} \times 0.011 \text{ lbs VOC/mmBtu per AP-42 Table 1.4-2 for natural gas combustion} \times 8760 \text{ hours}/(2000)]; \text{ and}$

For Number 2 fuel oil combustion:

$E = 0.252 \text{ lbs TOC}/1000 \text{ gals per AP-42 Table 1.3-3 for fuel oil combustion} \times 102.1 \text{ gallons fuel oil per hour} \times 8760 \text{ hours/year}/(2000)];$

where E = Emission Rate (tons per year).

(6) Emission Limitation:

The uncontrolled potential to emit is less than 10.0 tons per year of CO.

Applicable Compliance Method:

The annual CO emission rate is based on this emission unit's uncontrolled potential to emit from the combustion of natural gas or Number 2 fuel oil or diesel fuel. The annual CO emission rate was calculated by the following equations using the information submitted by the permittee in PTI Application 14-05957, submitted on June 28, 2007:

For natural gas combustion:

$E = \text{heat input capacity of } 14.3 \text{ mmBtu/hour} \times 0.082 \text{ lb CO/mmBtu per AP-42 Table 1.4-1 for natural gas combustion} \times 8760 \text{ hours}/(2000)]; \text{ and}$

For Number 2 fuel oil combustion:

$E = 5 \text{ lbs CO}/1000 \text{ gals per AP-42 Table 1.3-1 for fuel oil combustion} \times 102.1 \text{ gallons fuel oil per hour} \times 8760 \text{ hours/year}/(2000)];$



where E = Emission Rate (tons per year).

(7) Emission Limitation:

The uncontrolled potential to emit is less than 10.0 tons per year of NOx.

Applicable Compliance Method:

The annual NOx emission rate is based on this emission unit's uncontrolled potential to emit from the combustion of natural gas or Number 2 fuel oil or diesel fuel. The annual uncontrolled NOx emission rate was calculated by the following equations using the information submitted by the permittee in PTI Application 14-05957, submitted on June 28, 2007:

For natural gas combustion:

$$E = \text{heat input capacity of } 14.3 \text{ mmBtu/hour} \times 0.098 \text{ lb NOx/mmBtu per AP-42 Table 1.4-1 for natural gas combustion} \times 8760 \text{ hours}/(2000)]; \text{ and}$$

For Number 2 fuel oil combustion:

$$E = 20 \text{ lbs NOx}/1000 \text{ gals per AP-42 Table 1.3-1 for fuel oil combustion} \times 102.1 \text{ gallons fuel oil per hour} \times 8760 \text{ hours/year}/(2000)];$$

where E = Emission Rate (tons per year).

(8) Emission Limitation:

The sulfur content of the fuel oil shall not exceed 0.05 percent by weight.

Applicable Compliance Method:

Compliance with the fuel oil sulfur content limitation shall be demonstrated by the record of the fuel supplier certification required in d)(3).

g) Miscellaneous Requirements

(1) None.



3. B004, Cleaver Brooks dual fuel Boiler

Operations, Property and/or Equipment Description:

Steam boiler No. 4 - 350 HP Cleaver Brooks dual fuel 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)e. ,d)(3) and e)(4)
- 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(E)	See b)(2)a.
b.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack serving this emissions unit shall not exceed 20% opacity, as a six-minute average, except as specified by rule.
c.	OAC rule 3745-17-10(B)(1)	Particulate emissions (PE) shall not exceed 0.020 pound per mmBtu of actual heat input.
d.	OAC rule 3745-18-06(E)	When burning No. 2 fuel oil, the emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(E).
e.	40 CFR Part 60 Subpart Dc	The emission limitations specified by this rule are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(E).
f.	OAC rule 3745-31-05(A)(3)(b)	See b)(2)c.



(2) Additional Terms and Conditions

a. This PTIO for this air contaminant source takes into account the following restrictions (including the use of any air pollution control equipment) as proposed by the permittee for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3):

i. for sulfur dioxide (SO₂) emissions: the permittee will only use either natural gas or No. 2 fuel oil and/or diesel fuel with a sulfur content not to exceed 0.05 percent.

b. The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency (U.S. EPA), 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency (Ohio EPA).

c. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the Particulate Emissions (PE), Particulate Matter ten microns and less in diameter (PM₁₀), Nitrogen Oxides (NO_x), Carbon Monoxide (CO) and Volatile Organic Compound (VOC) emissions from this air contaminant source since the uncontrolled potential to emit for PE, PM₁₀, NO_x, CO, and VOC is less than ten tons per year.

The PE limitation specified in b)(1) is greater than the emission unit's potential to emit. Therefore, no monitoring, record keeping, and reporting requirements are necessary to ensure ongoing compliance with this emission limitation.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain monthly records of the quantity and type of fuel combusted in this emissions unit.

(2) The permittee shall collect and record the following information annually for the purpose of determining annual SO₂ emissions:

a. The total number of gallons of Number 2 fuel oil and diesel fuel combusted;

b. The total quantity of natural gas combusted in mmcf; and

c. The total SO₂ emissions from all fuels combusted, in tons, using the calculation methods provided in f)(1) and the actual amounts as recorded in c)(2)a. and c)(2)b.

(3) Pursuant to NSPS 40 CFR Part 60.42c(h), the permittee shall maintain oil supplier certifications for the fuel oil received for burning in this emissions unit that contain the following information:

a. The name of the oil supplier;



- b. A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil pursuant to 40 CFR Part 60.41c; and
- c. The sulfur content of the oil, in weight percent.

e) Reporting Requirements

- (1) 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.
- (2) The permittee shall identify in the annual permit evaluation report any exceedance of the allowable sulfur dioxide emission limitation and pounds sulfur dioxide/mmBtu actual heat input.
- (3) The permittee shall notify Hamilton County Department of Environmental Services in writing of any fuel burned in this emissions unit other than natural gas or Number 2 fuel oil or diesel fuel. The notification shall include a copy of such record and shall be sent to Hamilton County Department of Environmental Services within 45 days after the deviation occurs.
- (4) The permittee shall submit to the Hamilton County Department of Environmental Services, on a quarterly basis, copies of the oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) of each shipment of oil.

These quarterly reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall cover the oil shipments received during the previous calendar quarters.

f) Testing Requirements

- (1) Emission Limitation:

Particulate emissions shall not exceed 0.020 pound per mmBtu of actual heat input.

Applicable Compliance Method:

For the use of natural gas, compliance shall be determined by multiplying the hourly gas burning capacity of the emissions unit (mm cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 7.6 lbs of total PM/mm cu. ft, and then dividing by the maximum hourly heat input of the emissions unit (mmBtu/hr).

For the use of Number 2 fuel oil, compliance shall be determined by multiplying the hourly fuel oil burning capacity of the emissions unit (in 1000 gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 2 lbs of PM/1000 gallons, and then dividing by the maximum hourly heat input of the emissions unit (mmBtu/hr).



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.

(2) Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as specified by rule.

Applicable Compliance Method:

If required, 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).

(3) Emission Limitation:

The potential to emit is less than 10.0 tons per year of SO₂ based on a voluntary fuel oil sulfur content restriction of 0.05 weight percent.

Applicable Compliance Method:

The annual SO₂ emission rate is based on a voluntary restriction on the potential to emit established through OAC rule 3745-31-05(C) from the combustion of Number 2 fuel oil or diesel fuel. The annual SO₂ emission rate for both the combustion of natural gas and fuel oil usage was calculated by the following equations using the information submitted by the permittee in PTI Application 14-05957, submitted on June 28, 2007:

For natural gas combustion:

$E = \text{heat input capacity of } 14.3 \text{ mmBtu/hour} \times 0.0006 \text{ lbs SO}_2/\text{mmBtu per AP-42 Table 1.4-2 for natural gas combustion} \times 8760 \text{ hours}/(2000)]; \text{ and}$

For Number 2 fuel oil combustion:

$E = 7.1 \text{ lbs SO}_2/1000 \text{ gals per AP-42 Table 1.3-1 for fuel oil combustion} \times 102.1 \text{ gallons fuel oil per hour} \times 8760 \text{ hours/year}/(2000)];$

where E = Emission Rate (tons per year).

(4) Emission Limitation:

The uncontrolled potential to emit is less than 10.0 tons per year PE/PM₁₀.

Applicable Compliance Method:

The annual PE/PM₁₀ emission rate is based on this emission unit's uncontrolled potential to emit from the combustion of natural gas or Number 2 fuel oil or diesel fuel. PM₁₀ emissions shall be assumed to be equivalent to PE. The annual PE/PM₁₀ emission rates were calculated by the following equations using the information submitted by the permittee in PTI Application 14-05957, submitted on June 28, 2007:

For natural gas combustion:



$E = \text{heat input capacity of } 14.3 \text{ mmBtu/hour} \times 0.007 \text{ lbs PE/mmBtu per AP-42 Table 1.4-2 for natural gas combustion} \times 8760 \text{ hours}/(2000)]; \text{ and}$

For Number 2 fuel oil or diesel combustion:

$E = 2 \text{ lbs PM}/1000 \text{ gals per AP-42 Table 1.3-1 for fuel oil combustion} \times 102.1 \text{ gallons fuel oil per hour} \times 8760 \text{ hours/year}/(2000)];$

where E = Emission Rate (tons per year).

(5) Emission Limitation:

The uncontrolled potential to emit is less than 10.0 tons per year VOC.

Applicable Compliance Method:

The annual VOC emission rate is based on this emission unit's uncontrolled potential to emit from the combustion of natural gas or Number 2 fuel oil or diesel fuel. The annual VOC emission rate was calculated by the following equations using the information submitted by the permittee in PTI Application 14-05957, submitted on June 28, 2007:

For natural gas combustion:

$E = \text{heat input capacity of } 14.3 \text{ mmBtu/hour} \times 0.011 \text{ lbs VOC/mmBtu per AP-42 Table 1.4-2 for natural gas combustion} \times 8760 \text{ hours}/(2000)]; \text{ and}$

For Number 2 fuel oil combustion:

$E = 0.252 \text{ lbs TOC}/1000 \text{ gals per AP-42 Table 1.3-3 for fuel oil combustion} \times 102.1 \text{ gallons fuel oil per hour} \times 8760 \text{ hours/year}/(2000)];$

where E = Emission Rate (tons per year).

(6) Emission Limitation:

The uncontrolled potential to emit is less than 10.0 tons per year of CO.

Applicable Compliance Method:

The annual CO emission rate is based on this emission unit's uncontrolled potential to emit from the combustion of natural gas or Number 2 fuel oil or diesel fuel. The annual CO emission rate was calculated by the following equations using the information submitted by the permittee in PTI Application 14-05957, submitted on June 28, 2007:

For natural gas combustion:

$E = \text{heat input capacity of } 14.3 \text{ mmBtu/hour} \times 0.082 \text{ lb CO/mmBtu per AP-42 Table 1.4-1 for natural gas combustion} \times 8760 \text{ hours}/(2000)]; \text{ and}$

For Number 2 fuel oil combustion:

$E = 5 \text{ lbs CO}/1000 \text{ gals per AP-42 Table 1.3-1 for fuel oil combustion} \times 102.1 \text{ gallons fuel oil per hour} \times 8760 \text{ hours/year}/(2000)];$



where E = Emission Rate (tons per year).

(7) Emission Limitation:

The uncontrolled potential to emit is less than 10.0 tons per year of NOx.

Applicable Compliance Method:

The annual NOx emission rate is based on this emission unit's uncontrolled potential to emit from the combustion of natural gas or Number 2 fuel oil or diesel fuel. The annual uncontrolled NOx emission rate was calculated by the following equations using the information submitted by the permittee in PTI Application 14-05957, submitted on June 28, 2007:

For natural gas combustion:

$$E = \text{heat input capacity of } 14.3 \text{ mmBtu/hour} \times 0.098 \text{ lb NOx/mmBtu per AP-42 Table 1.4-1 for natural gas combustion} \times 8760 \text{ hours}/(2000)]; \text{ and}$$

For Number 2 fuel oil combustion:

$$E = 20 \text{ lbs NOx}/1000 \text{ gals per AP-42 Table 1.3-1 for fuel oil combustion} \times 102.1 \text{ gallons fuel oil per hour} \times 8760 \text{ hours/year}/(2000)];$$

where E = Emission Rate (tons per year).

(8) Emission Limitation:

The sulfur content of the fuel oil shall not exceed 0.05 percent by weight.

Applicable Compliance Method:

Compliance with the fuel oil sulfur content limitation shall be demonstrated by the record of the fuel supplier certification required in d)(3).

g) Miscellaneous Requirements

- (1) None.



4. B007, Hot water boiler

Operations, Property and/or Equipment Description:

Hot water boiler No. 1 - 300 HP Cleaver Brooks dual fuel 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)e. ,d)(3) and e)(4)
- 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(E)	See b)(2)a.
b.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack serving this emissions unit shall not exceed 20% opacity, as a six-minute average, except as specified by rule.
c.	OAC rule 3745-17-10(B)(1)	Particulate emissions (PE) shall not exceed 0.020 pound per mmBtu of actual heat input.
d.	OAC rule 3745-18-06(E)	When burning No. 2 fuel oil, the emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(E).
e.	40 CFR Part 60 Subpart Dc	The emission limitations specified by this rule are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(E).
f.	OAC rule 3745-31-05(A)(3)(b)	See b)(2)c.



(2) Additional Terms and Conditions

a. This PTIO for this air contaminant source takes into account the following restrictions (including the use of any air pollution control equipment) as proposed by the permittee for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3):

i. for sulfur dioxide (SO₂) emissions: the permittee will only use either natural gas or No. 2 fuel oil and/or diesel fuel with a sulfur content not to exceed 0.05 percent.

b. The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency (U.S. EPA), 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency (Ohio EPA).

c. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the Particulate Emissions (PE), Particulate Matter ten microns and less in diameter (PM₁₀), Nitrogen Oxides (NO_x), Carbon Monoxide (CO) and Volatile Organic Compound (VOC) emissions from this air contaminant source since the uncontrolled potential to emit for PE, PM₁₀, NO_x, CO, and VOC is less than ten tons per year.

The PE limitation specified in b)(1) is greater than the emission unit's potential to emit. Therefore, no monitoring, record keeping, and reporting requirements are necessary to ensure ongoing compliance with this emission limitation.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain monthly records of the quantity and type of fuel combusted in this emissions unit.

(2) The permittee shall collect and record the following information annually for the purpose of determining annual SO₂ emissions:

- a. The total number of gallons of Number 2 fuel oil and diesel fuel combusted;
- b. The total quantity of natural gas combusted in mmcf; and
- c. The total SO₂ emissions from all fuels combusted, in tons, using the calculation methods provided in f)(1) and the actual amounts as recorded in c)(2)a. and c)(2)b.

(3) Pursuant to NSPS 40 CFR Part 60.42c(h), the permittee shall maintain oil supplier certifications for the fuel oil received for burning in this emissions unit that contain the following information:

a. The name of the oil supplier;



- b. A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil pursuant to 40 CFR Part 60.41c; and
- c. The sulfur content of the oil, in weight percent.

e) Reporting Requirements

- (1) 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.
- (2) The permittee shall identify in the annual permit evaluation report any exceedance of the allowable sulfur dioxide emission limitation and pounds sulfur dioxide/mmBtu actual heat input.
- (3) The permittee shall notify Hamilton County Department of Environmental Services in writing of any fuel burned in this emissions unit other than natural gas or Number 2 fuel oil or diesel fuel. The notification shall include a copy of such record and shall be sent to Hamilton County Department of Environmental Services within 45 days after the deviation occurs.
- (4) The permittee shall submit to the Hamilton County Department of Environmental Services, on a quarterly basis, copies of the oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) of each shipment of oil.

These quarterly reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall cover the oil shipments received during the previous calendar quarters.

f) Testing Requirements

- (1) Emission Limitation:

Particulate emissions shall not exceed 0.020 pound per mmBtu of actual heat input.

Applicable Compliance Method:

For the use of natural gas, compliance shall be determined by multiplying the hourly gas burning capacity of the emissions unit (mm cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 7.6 lbs of total PM/mm cu. ft, and then dividing by the maximum hourly heat input of the emissions unit (mmBtu/hr).

For the use of Number 2 fuel oil, compliance shall be determined by multiplying the hourly fuel oil burning capacity of the emissions unit (in 1000 gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 2 lbs of PM/1000 gallons, and then dividing by the maximum hourly heat input of the emissions unit (mmBtu/hr).



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.

(2) Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as specified by rule.

Applicable Compliance Method:

If required, 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).

(3) Emission Limitation:

The potential to emit is less than 10.0 tons per year of SO₂ based on a voluntary fuel oil sulfur content restriction of 0.05 weight percent.

Applicable Compliance Method:

The annual SO₂ emission rate is based on a voluntary restriction on the potential to emit established through OAC rule 3745-31-05(C) from the combustion of Number 2 fuel oil or diesel fuel. The annual SO₂ emission rate for both the combustion of natural gas and fuel oil usage was calculated by the following equations using the information submitted by the permittee in PTI Application 14-05957, submitted on June 28, 2007:

For natural gas combustion:

$E = \text{heat input capacity of } 12.5 \text{ mmBtu/hour} \times 0.0006 \text{ lbs SO}_2/\text{mmBtu per AP-42 Table 1.4-2 for natural gas combustion} \times 8760 \text{ hours}/(2000)]; \text{ and}$

For Number 2 fuel oil combustion:

$E = 7.1 \text{ lbs SO}_2/1000 \text{ gals per AP-42 Table 1.3-1 for fuel oil combustion} \times 89.66 \text{ gallons fuel oil per hour} \times 8760 \text{ hours/year}/(2000)];$

where E = Emission Rate (tons per year).

(4) Emission Limitation:

The uncontrolled potential to emit is less than 10.0 tons per year PE/PM₁₀.

Applicable Compliance Method:

The annual PE/PM₁₀ emission rate is based on this emission unit's uncontrolled potential to emit from the combustion of natural gas or Number 2 fuel oil or diesel fuel. PM₁₀ emissions shall be assumed to be equivalent to PE. The annual PE/PM₁₀ emission rates were calculated by the following equations using the information submitted by the permittee in PTI Application 14-05957, submitted on June 28, 2007:

For natural gas combustion:



$E = \text{heat input capacity of } 12.5 \text{ mmBtu/hour} \times 0.007 \text{ lbs PE/mmBtu per AP-42 Table 1.4-2 for natural gas combustion} \times 8760 \text{ hours}/(2000)]; \text{ and}$

For Number 2 fuel oil or diesel combustion:

$E = 2 \text{ lbs PM}/1000 \text{ gals per AP-42 Table 1.3-1 for fuel oil combustion} \times 89.66 \text{ gallons fuel oil per hour} \times 8760 \text{ hours/year}/(2000)];$

where E = Emission Rate (tons per year).

(5) Emission Limitation:

The uncontrolled potential to emit is less than 10.0 tons per year VOC.

Applicable Compliance Method:

The annual VOC emission rate is based on this emission unit's uncontrolled potential to emit from the combustion of natural gas or Number 2 fuel oil or diesel fuel. The annual VOC emission rate was calculated by the following equations using the information submitted by the permittee in PTI Application 14-05957, submitted on June 28, 2007:

For natural gas combustion:

$E = \text{heat input capacity of } 12.5 \text{ mmBtu/hour} \times 0.011 \text{ lbs VOC/mmBtu per AP-42 Table 1.4-2 for natural gas combustion} \times 8760 \text{ hours}/(2000)]; \text{ and}$

For Number 2 fuel oil combustion:

$E = 0.252 \text{ lbs TOC}/1000 \text{ gals per AP-42 Table 1.3-3 for fuel oil combustion} \times 89.66 \text{ gallons fuel oil per hour} \times 8760 \text{ hours/year}/(2000)];$

where E = Emission Rate (tons per year).

(6) Emission Limitation:

The uncontrolled potential to emit is less than 10.0 tons per year of CO.

Applicable Compliance Method:

The annual CO emission rate is based on this emission unit's uncontrolled potential to emit from the combustion of natural gas or Number 2 fuel oil or diesel fuel. The annual CO emission rate was calculated by the following equations using the information submitted by the permittee in PTI Application 14-05957, submitted on June 28, 2007:

For natural gas combustion:

$E = \text{heat input capacity of } 12.5 \text{ mmBtu/hour} \times 0.082 \text{ lb CO/mmBtu per AP-42 Table 1.4-1 for natural gas combustion} \times 8760 \text{ hours}/(2000)]; \text{ and}$

For Number 2 fuel oil combustion:

$E = 5 \text{ lbs CO}/1000 \text{ gals per AP-42 Table 1.3-1 for fuel oil combustion} \times 89.66 \text{ gallons fuel oil per hour} \times 8760 \text{ hours/year}/(2000)];$



where E = Emission Rate (tons per year).

(7) Emission Limitation:

The uncontrolled potential to emit is less than 10.0 tons per year of NOx.

Applicable Compliance Method:

The annual NOx emission rate is based on this emission unit's uncontrolled potential to emit from the combustion of natural gas or Number 2 fuel oil or diesel fuel. The annual uncontrolled NOx emission rate was calculated by the following equations using the information submitted by the permittee in PTI Application 14-05957, submitted on June 28, 2007:

For natural gas combustion:

$E = \text{heat input capacity of } 12.5 \text{ mmBtu/hour} \times 0.098 \text{ lb NOx/mmBtu per AP-42 Table 1.4-1 for natural gas combustion} \times 8760 \text{ hours}/(2000)]; \text{ and}$

For Number 2 fuel oil combustion:

$E = 20 \text{ lbs NOx}/1000 \text{ gals per AP-42 Table 1.3-1 for fuel oil combustion} \times 89.66 \text{ gallons fuel oil per hour} \times 8760 \text{ hours/year}/(2000)];$

where E = Emission Rate (tons per year).

(8) Emission Limitation:

The sulfur content of the fuel oil shall not exceed 0.05 percent by weight.

Applicable Compliance Method:

Compliance with the fuel oil sulfur content limitation shall be demonstrated by the record of the fuel supplier certification required in d)(3).

g) Miscellaneous Requirements

(1) None.



5. B008, Hot water boiler No.

Operations, Property and/or Equipment Description:

Hot water boiler No. 2 - 300 HP Cleaver Brooks dual fuel 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)e. ,d)(3) and e)(4)
- 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(E)	See b)(2)a.
b.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack serving this emissions unit shall not exceed 20% opacity, as a six-minute average, except as specified by rule.
c.	OAC rule 3745-17-10(B)(1)	Particulate emissions (PE) shall not exceed 0.020 pound per mmBtu of actual heat input.
d.	OAC rule 3745-18-06(E)	When burning No. 2 fuel oil, the emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(E).
e.	40 CFR Part 60 Subpart Dc	The emission limitations specified by this rule are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(E).
f.	OAC rule 3745-31-05(A)(3)(b)	See b)(2)c.



(2) Additional Terms and Conditions

a. This PTIO for this air contaminant source takes into account the following restrictions (including the use of any air pollution control equipment) as proposed by the permittee for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3):

i. for sulfur dioxide (SO₂) emissions: the permittee will only use either natural gas or No. 2 fuel oil and/or diesel fuel with a sulfur content not to exceed 0.05 percent.

b. The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency (U.S. EPA), 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency (Ohio EPA).

c. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the Particulate Emissions (PE), Particulate Matter ten microns and less in diameter (PM₁₀), Nitrogen Oxides (NO_x), Carbon Monoxide (CO) and Volatile Organic Compound (VOC) emissions from this air contaminant source since the uncontrolled potential to emit for PE, PM₁₀, NO_x, CO, and VOC is less than ten tons per year.

The PE limitation specified in b)(1) is greater than the emission unit's potential to emit. Therefore, no monitoring, record keeping, and reporting requirements are necessary to ensure ongoing compliance with this emission limitation.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain monthly records of the quantity and type of fuel combusted in this emissions unit.

(2) The permittee shall collect and record the following information annually for the purpose of determining annual SO₂ emissions:

- a. The total number of gallons of Number 2 fuel oil and diesel fuel combusted;
- b. The total quantity of natural gas combusted in mmcf; and
- c. The total SO₂ emissions from all fuels combusted, in tons, using the calculation methods provided in f)(1) and the actual amounts as recorded in c)(2)a. and c)(2)b.

(3) Pursuant to NSPS 40 CFR Part 60.42c(h), the permittee shall maintain oil supplier certifications for the fuel oil received for burning in this emissions unit that contain the following information:

a. The name of the oil supplier;



- b. A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil pursuant to 40 CFR Part 60.41c; and
- c. The sulfur content of the oil, in weight percent.

e) Reporting Requirements

- (1) 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.
- (2) The permittee shall identify in the annual permit evaluation report any exceedance of the allowable sulfur dioxide emission limitation and pounds sulfur dioxide/mmBtu actual heat input.
- (3) The permittee shall notify Hamilton County Department of Environmental Services in writing of any fuel burned in this emissions unit other than natural gas or Number 2 fuel oil or diesel fuel. The notification shall include a copy of such record and shall be sent to Hamilton County Department of Environmental Services within 45 days after the deviation occurs.
- (4) The permittee shall submit to the Hamilton County Department of Environmental Services, on a quarterly basis, copies of the oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) of each shipment of oil.

These quarterly reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall cover the oil shipments received during the previous calendar quarters.

f) Testing Requirements

- (1) Emission Limitation:

Particulate emissions shall not exceed 0.020 pound per mmBtu of actual heat input.

Applicable Compliance Method:

For the use of natural gas, compliance shall be determined by multiplying the hourly gas burning capacity of the emissions unit (mm cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 7.6 lbs of total PM/mm cu. ft, and then dividing by the maximum hourly heat input of the emissions unit (mmBtu/hr).

For the use of Number 2 fuel oil, compliance shall be determined by multiplying the hourly fuel oil burning capacity of the emissions unit (in 1000 gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 2 lbs of PM/1000 gallons, and then dividing by the maximum hourly heat input of the emissions unit (mmBtu/hr).



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.

(2) Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as specified by rule.

Applicable Compliance Method:

If required, 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).

(3) Emission Limitation:

The potential to emit is less than 10.0 tons per year of SO₂ based on a voluntary fuel oil sulfur content restriction of 0.05 weight percent.

Applicable Compliance Method:

The annual SO₂ emission rate is based on a voluntary restriction on the potential to emit established through OAC rule 3745-31-05(C) from the combustion of Number 2 fuel oil or diesel fuel. The annual SO₂ emission rate for both the combustion of natural gas and fuel oil usage was calculated by the following equations using the information submitted by the permittee in PTI Application 14-05957, submitted on June 28, 2007:

For natural gas combustion:

$$E = \text{heat input capacity of } 12.5 \text{ mmBtu/hour} \times 0.0006 \text{ lbs SO}_2/\text{mmBtu per AP-42 Table 1.4-2 for natural gas combustion} \times 8760 \text{ hours}/(2000)]; \text{ and}$$

For Number 2 fuel oil combustion:

$$E = 7.1 \text{ lbs SO}_2/1000 \text{ gals per AP-42 Table 1.3-1 for fuel oil combustion} \times 89.66 \text{ gallons fuel oil per hour} \times 8760 \text{ hours/year}/(2000)];$$

where E = Emission Rate (tons per year).

(4) Emission Limitation:

The uncontrolled potential to emit is less than 10.0 tons per year PE/PM₁₀.

Applicable Compliance Method:

The annual PE/PM₁₀ emission rate is based on this emission unit's uncontrolled potential to emit from the combustion of natural gas or Number 2 fuel oil or diesel fuel. PM₁₀ emissions shall be assumed to be equivalent to PE. The annual PE/PM₁₀ emission rates were calculated by the following equations using the information submitted by the permittee in PTI Application 14-05957, submitted on June 28, 2007:

For natural gas combustion:



$E = \text{heat input capacity of } 12.5 \text{ mmBtu/hour} \times 0.007 \text{ lbs PE/mmBtu per AP-42 Table 1.4-2 for natural gas combustion} \times 8760 \text{ hours}/(2000)]; \text{ and}$

For Number 2 fuel oil or diesel combustion:

$E = 2 \text{ lbs PM}/1000 \text{ gals per AP-42 Table 1.3-1 for fuel oil combustion} \times 89.66 \text{ gallons fuel oil per hour} \times 8760 \text{ hours/year}/(2000)];$

where E = Emission Rate (tons per year).

(5) Emission Limitation:

The uncontrolled potential to emit is less than 10.0 tons per year VOC.

Applicable Compliance Method:

The annual VOC emission rate is based on this emission unit's uncontrolled potential to emit from the combustion of natural gas or Number 2 fuel oil or diesel fuel. The annual VOC emission rate was calculated by the following equations using the information submitted by the permittee in PTI Application 14-05957, submitted on June 28, 2007:

For natural gas combustion:

$E = \text{heat input capacity of } 12.5 \text{ mmBtu/hour} \times 0.011 \text{ lbs VOC/mmBtu per AP-42 Table 1.4-2 for natural gas combustion} \times 8760 \text{ hours}/(2000)]; \text{ and}$

For Number 2 fuel oil combustion:

$E = 0.252 \text{ lbs TOC}/1000 \text{ gals per AP-42 Table 1.3-3 for fuel oil combustion} \times 89.66 \text{ gallons fuel oil per hour} \times 8760 \text{ hours/year}/(2000)];$

where E = Emission Rate (tons per year).

(6) Emission Limitation:

The uncontrolled potential to emit is less than 10.0 tons per year of CO.

Applicable Compliance Method:

The annual CO emission rate is based on this emission unit's uncontrolled potential to emit from the combustion of natural gas or Number 2 fuel oil or diesel fuel. The annual CO emission rate was calculated by the following equations using the information submitted by the permittee in PTI Application 14-05957, submitted on June 28, 2007:

For natural gas combustion:

$E = \text{heat input capacity of } 12.5 \text{ mmBtu/hour} \times 0.082 \text{ lb CO/mmBtu per AP-42 Table 1.4-1 for natural gas combustion} \times 8760 \text{ hours}/(2000)]; \text{ and}$

For Number 2 fuel oil combustion:

$E = 5 \text{ lbs CO}/1000 \text{ gals per AP-42 Table 1.3-1 for fuel oil combustion} \times 89.66 \text{ gallons fuel oil per hour} \times 8760 \text{ hours/year}/(2000)];$



where E = Emission Rate (tons per year).

(7) Emission Limitation:

The uncontrolled potential to emit is less than 10.0 tons per year of NOx.

Applicable Compliance Method:

The annual NOx emission rate is based on this emission unit's uncontrolled potential to emit from the combustion of natural gas or Number 2 fuel oil or diesel fuel. The annual uncontrolled NOx emission rate was calculated by the following equations using the information submitted by the permittee in PTI Application 14-05957, submitted on June 28, 2007:

For natural gas combustion:

$$E = \text{heat input capacity of } 12.5 \text{ mmBtu/hour} \times 0.098 \text{ lb NOx/mmBtu per AP-42 Table 1.4-1 for natural gas combustion} \times 8760 \text{ hours}/(2000)]; \text{ and}$$

For Number 2 fuel oil combustion:

$$E = 20 \text{ lbs NOx}/1000 \text{ gals per AP-42 Table 1.3-1 for fuel oil combustion} \times 89.66 \text{ gallons fuel oil per hour} \times 8760 \text{ hours/year}/(2000)];$$

where E = Emission Rate (tons per year).

(8) Emission Limitation:

The sulfur content of the fuel oil shall not exceed 0.05 percent by weight.

Applicable Compliance Method:

Compliance with the fuel oil sulfur content limitation shall be demonstrated by the record of the fuel supplier certification required in d)(3).

g) Miscellaneous Requirements

- (1) None.



6. P002, Emerg Gen. No. 1

Operations, Property and/or Equipment Description:

Emergency Generator No. 1

- 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)d., b)(1)e., c)(1), d)(1), d)(2) and f)(2).
- 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)	Nitrogen oxide (NOx) emissions shall not exceed 48.11 pounds per hour (lb/hr).
b.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as specified by rule.
c.	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions (PE) shall not exceed 0.062 pound per million Btu of actual heat input.
d.	OAC rule 3745-31-05(D)(1)(b) Synthetic Minor to avoid Nonattainment New Source Review	NOx emissions from this emissions unit shall not exceed 12.03 tons per year (TPY) on a rolling, 12-month basis. See c)(1).
e.	OAC rule 3745-31-05(E) Voluntary restriction to avoid best available technology	See b)(2)d.
f.	OAC rule 3745-31-05(A)(3)(a)(ii)	See b)(2)b.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
g.	OAC rule 3745-18-06(G)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(E).

(2) Additional Terms and Conditions

- a. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the emission limitations listed in b)(1).
- b. The Best Available Technology (BAT) requirements under OAC rule 3745-31(A)(3) do not apply to the PE, particulate matter emissions 10 microns and less in diameter (PM10) and volatile organic compounds (VOC) from this air contaminant source since the uncontrolled potential to emit for PE, PM10, and VOC is less than ten tons per year.
- c. The hourly NOx emission limitation in b)(1)d. is based on the emissions unit's potential to emit. Therefore, no monitoring, record keeping, and reporting requirements are necessary to ensure ongoing compliance with this emission limitation.
- d. Permit to Install 14-05957 for this air contaminant source takes into account the following voluntary restrictions as proposed by the permittee for the purpose of avoiding Best Available technology (BAT) under OAC rule 3745-31-05(A)(3):
 - i. for Sulfur Dioxide (SO2) emissions: the permittee shall use of ultra low sulfur diesel fuel to ensure the controlled potential to emit is less than 10.0 tons per year. The diesel fuel shall not exceed 0.05 percent sulfur by weight; and
 - ii. for Carbon Monoxide (CO) emissions: the permittee shall limit the operation of this emissions unit to not exceed 500 hours per year.

c) Operational Restrictions

- (1) The maximum hours of operation of this emissions unit shall not exceed 500 hours per year on a rolling 12 month basis. The permittee has existing records to demonstrate compliance with this limitation upon issuance of this permit.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the following information:
 - a. the total volume of diesel fuel in gallons burned in this emissions unit;
 - b. the total hours of operation;



- c. the type and total amount of fuel, other than diesel fuel having a sulfur content of 0.05 percent sulfur by weight, burned in this emissions unit.
- (2) The permittee shall maintain monthly records of the following information for this emission unit in order to monitor compliance with the rolling, 12-month summation emission limitation:
 - a. the total emissions, in tons, for NO_x; and
 - b. the rolling, 12-monthly summation emissions total, in tons, for NO_x (the total amount of emissions calculated for the current month plus the total amount of emissions for the previous eleven calendar months).
- 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:
 - i. NO_x emissions limitation of 12.03 TPY on a rolling, 12-month basis.
 - ii. Hours of operation limitation of 500 hours per year based on a rolling, 12-month basis.
 - a. the probable cause of each deviation (excursion);
 - b. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
 - c. 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) 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.



f) Testing Requirements

(1) Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as specified by rule.

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).

(2) Emission Limitations:

Nitrogen oxide emissions shall not exceed 48.11 pounds per hour (lb/hr) and 12.03 tons per year on a rolling 12 month basis.

Applicable Compliance Methods:

The emission limitations were based upon the emission factor provided by the permittee in Permit To Install application submitted June 28, 2007 which in turn was based on manufacturer's specifications, specifically Milton CAT Power Systems, Performance Data Sheet, 9/13/06. The performance data sheet provides an emission factor of 48.11 lbs/hr of NOx emissions at maximum diesel fuel consumption. This emission factor is then multiplied by the actual hours of operation and dividing by 2000 pounds per ton to determine the actual NOx emissions in tons.

Compliance shall be demonstrated by the recordkeeping required in d)(2).

(3) Emission Limitations:

Carbon monoxide emissions shall not exceed 10.0 TPY.

Applicable Compliance Methods:

The emission limitation was based upon the emission factor provided by the permittee in Permit To Install application submitted June 28, 2007 which in turn was based on manufacturer's specifications, specifically Milton CAT Power Systems, Performance Data Sheet, 9/13/06. The performance data sheet provides an emission factor of 5.86 lbs/hr of CO emissions at maximum diesel fuel consumption. This emission factor is then multiplied by the actual hours of operation and dividing by 2000 pounds per ton to determine the actual CO emissions in tons.

(4) Emissions Limitations:

PE and PM10 emissions shall not exceed 10.0 TPY.

Applicable Compliance Method:

The emission limitations were based upon the emission factor provided by the permittee in Permit To Install application submitted June 28, 2007 which in turn was based on



manufacturer's specifications, specifically Milton CAT Power Systems, Performance Data Sheet, 9/13/06.

The performance data sheet provides an emission factor of 0.4 lb/hr of PE/PM10 emissions at maximum diesel fuel consumption. This emission factor is then multiplied by the maximum hours of operation and dividing by 2000 pounds per ton to determine the actual PE/PM10 emissions in tons.

(5) Emissions Limitations:

VOC emissions shall not exceed 10.0 TPY.

Applicable Compliance Method:

The emission limitations were based upon the emission factor provided by the permittee in Permit To Install application submitted June 28, 2007 which in turn was based on manufacturer's specifications, specifically Milton CAT Power Systems, Performance Data Sheet, 9/13/06.

The performance data sheet provides an emission factor of 1.17 lbs/hr of VOC (as NMOC) emissions at maximum diesel fuel consumption. This emission factor is then multiplied by the maximum hours of operation and dividing by 2000 pounds per ton to determine the actual VOC emissions in tons.

(6) Emissions Limitations:

SO2 emissions shall not exceed 10.0 TPY.

Applicable Compliance Method:

The actual annual emission rate shall be calculated by multiplying the actual diesel fuel usage (in mmBtu, which is to be calculated based on the maximum heat input rate times the actual hours of operation) by the emission factor from AP-42, Table 3.4-1 (10/96) and then by the weight percentage of sulfur and dividing by 2000 pounds per ton.

(7) Emission Limitation:

The sulfur content of the fuel oil shall not exceed 0.05 percent by weight.

Applicable Compliance Method:

Compliance with the fuel oil sulfur content limitation shall be demonstrated by the record of the fuel supplier certification required in d)(3).

(8) Compliance with the hours of operation in c)(1) shall be demonstrated by the recordkeeping required in d)(1).

g) Miscellaneous Requirements

(1) None.



7. P003, Emergency Gen. No. 2

Operations, Property and/or Equipment Description:

Emergency Generator No. 2

- 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)d., b)(1)e., c)(1), d)(1), d)(2) and f)(2).
- 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)	Nitrogen oxide (NOx) emissions shall not exceed 48.11 pounds per hour (lb/hr).
b.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as specified by rule.
c.	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions (PE) shall not exceed 0.062 pound per million Btu of actual heat input.
d.	OAC rule 3745-31-05(D)(1)(b) Synthetic Minor to avoid Nonattainment New Source Review	NOx emissions from this emissions unit shall not exceed 12.03 tons per year (TPY) on a rolling, 12-month basis. See c)(1).
e.	OAC rule 3745-31-05(E) Voluntary restriction to avoid best available technology	See b)(2)d.
f.	OAC rule 3745-31-05(A)(3)(b)	See b)(2)b.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
g.	OAC rule 3745-18-06(G)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(E).

(2) Additional Terms and Conditions

- a. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the emission limitations listed in b)(1).
- b. The Best Available Technology (BAT) requirements under OAC rule 3745-31(A)(3) do not apply to the PE, particulate matter emissions 10 microns and less in diameter (PM10) and volatile organic compounds (VOC) from this air contaminant source since the uncontrolled potential to emit for PE, PM10, and VOC is less than ten tons per year.
- c. The hourly NOx emission limitation in b)(1)d. is based on the emissions unit's potential to emit. Therefore, no monitoring, record keeping, and reporting requirements are necessary to ensure ongoing compliance with this emission limitation.
- d. Permit to Install 14-05957 for this air contaminant source takes into account the following voluntary restrictions as proposed by the permittee for the purpose of avoiding Best Available technology (BAT) under OAC rule 3745-31-05(A)(3):
 - i. for Sulfur Dioxide (SO2) emissions: the permittee shall use of ultra low sulfur diesel fuel to ensure the controlled potential to emit is less than 10.0 tons per year. The diesel fuel shall not exceed 0.05 percent sulfur by weight; and
 - ii. for Carbon Monoxide (CO) emissions: the permittee shall limit the operation of this emissions unit to not exceed 500 hours per year.

c) Operational Restrictions

- (1) The maximum hours of operation of this emissions unit shall not exceed 500 hours per year on a rolling 12 month basis. The permittee has existing records to demonstrate compliance with this limitation upon issuance of this permit.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the following information:
 - a. the total volume of diesel fuel in gallons burned in this emissions unit;
 - b. the total hours of operation;



- c. the type and total amount of fuel, other than diesel fuel having a sulfur content of 0.05 percent sulfur by weight, burned in this emissions unit.
- (2) The permittee shall maintain monthly records of the following information for this emission unit in order to monitor compliance with the rolling, 12-month summation emission limitation:
 - a. the total emissions, in tons, for NO_x; and
 - b. the rolling, 12-monthly summation emissions total, in tons, for NO_x (the total amount of emissions calculated for the current month plus the total amount of emissions for the previous eleven calendar months).
- 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:
 - i. NO_x emissions limitation of 12.03 TPY on a rolling, 12-month basis.
 - ii. Hours of operation limitation of 500 hours per year based on a rolling, 12-month basis.
 - 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) 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.



f) Testing Requirements

(1) Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as specified by rule.

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).

(2) Emission Limitations:

Nitrogen oxide emissions shall not exceed 48.11 pounds per hour (lb/hr) and 12.03 tons per year on a rolling 12 month basis.

Applicable Compliance Methods:

The emission limitations were based upon the emission factor provided by the permittee in Permit To Install application submitted June 28, 2007 which in turn was based on manufacturer's specifications, specifically Milton CAT Power Systems, Performance Data Sheet, 9/13/06. The performance data sheet provides an emission factor of 48.11 lbs/hr of NOx emissions at maximum diesel fuel consumption. This emission factor is then multiplied by the actual hours of operation and dividing by 2000 pounds per ton to determine the actual NOx emissions in tons.

Compliance shall be demonstrated by the recordkeeping required in d)(2).

(3) Emission Limitations:

Carbon monoxide emissions shall not exceed 10.0 TPY.

Applicable Compliance Methods:

The emission limitation was based upon the emission factor provided by the permittee in Permit To Install application submitted June 28, 2007 which in turn was based on manufacturer's specifications, specifically Milton CAT Power Systems, Performance Data Sheet, 9/13/06. The performance data sheet provides an emission factor of 5.86 lbs/hr of CO emissions at maximum diesel fuel consumption. This emission factor is then multiplied by the actual hours of operation and dividing by 2000 pounds per ton to determine the actual CO emissions in tons.

(4) Emissions Limitations:

PE and PM10 emissions shall not exceed 10.0 TPY.

Applicable Compliance Method:

The emission limitations were based upon the emission factor provided by the permittee in Permit To Install application submitted June 28, 2007 which in turn was based on



manufacturer's specifications, specifically Milton CAT Power Systems, Performance Data Sheet, 9/13/06.

The performance data sheet provides an emission factor of 0.4 lb/hr of PE/PM10 emissions at maximum diesel fuel consumption. This emission factor is then multiplied by the maximum hours of operation and dividing by 2000 pounds per ton to determine the actual PE/PM10 emissions in tons.

(5) Emissions Limitations:

VOC emissions shall not exceed 10.0 TPY.

Applicable Compliance Method:

The emission limitations were based upon the emission factor provided by the permittee in Permit To Install application submitted June 28, 2007 which in turn was based on manufacturer's specifications, specifically Milton CAT Power Systems, Performance Data Sheet, 9/13/06.

The performance data sheet provides an emission factor of 1.17 lbs/hr of VOC (as NMOC) emissions at maximum diesel fuel consumption. This emission factor is then multiplied by the maximum hours of operation and dividing by 2000 pounds per ton to determine the actual VOC emissions in tons.

(6) Emissions Limitations:

SO2 emissions shall not exceed 10.0 TPY.

Applicable Compliance Method:

The actual annual emission rate shall be calculated by multiplying the actual diesel fuel usage (in mmBtu, which is to be calculated based on the maximum heat input rate times the actual hours of operation) by the emission factor from AP-42, Table 3.4-1 (10/96) and then by the weight percentage of sulfur and dividing by 2000 pounds per ton.

(7) Emission Limitation:

The sulfur content of the fuel oil shall not exceed 0.05 percent by weight.

Applicable Compliance Method:

Compliance with the fuel oil sulfur content limitation shall be demonstrated by the record of the fuel supplier certification required in d)(3).

(8) Compliance with the hours of operation in c)(1) shall be demonstrated by the recordkeeping required in d)(1).

g) Miscellaneous Requirements

(1) None.



8. P004, Emerg. Gen. No. 3

Operations, Property and/or Equipment Description:

Emergency Generator No. 3

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)d., b)(1)e., c)(1), d)(1), d)(2) and f)(2).

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)	Nitrogen oxide (NOx) emissions shall not exceed 48.11 pounds per hour (lb/hr).
b.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as specified by rule.
c.	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions (PE) shall not exceed 0.062 pound per million Btu of actual heat input.
d.	OAC rule 3745-31-05(D)(1)(b) Synthetic Minor to avoid Nonattainment New Source Review	NOx emissions from this emissions unit shall not exceed 12.03 tons per year (TPY) on a rolling, 12-month basis. See c)(1).
e.	OAC rule 3745-31-05(E) Voluntary restriction to avoid best available technology	See b)(2)d.
f.	OAC rule 3745-31-05(A)(3)(b)	See b)(2)b.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
g.	OAC rule 3745-18-06(G)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(E).

(2) Additional Terms and Conditions

- a. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the emission limitations listed in b)(1).
- b. The Best Available Technology (BAT) requirements under OAC rule 3745-31(A)(3) do not apply to the PE, particulate matter emissions 10 microns and less in diameter (PM10) and volatile organic compounds (VOC) from this air contaminant source since the uncontrolled potential to emit for PE, PM10, and VOC is less than ten tons per year.
- c. The hourly NOx emission limitation in b)(1)d. is based on the emissions unit's potential to emit. Therefore, no monitoring, record keeping, and reporting requirements are necessary to ensure ongoing compliance with this emission limitation.
- d. Permit to Install 14-05957 for this air contaminant source takes into account the following voluntary restrictions as proposed by the permittee for the purpose of avoiding Best Available technology (BAT) under OAC rule 3745-31-05(A)(3):
 - i. for Sulfur Dioxide (SO2) emissions: the permittee shall use of ultra low sulfur diesel fuel to ensure the controlled potential to emit is less than 10.0 tons per year. The diesel fuel shall not exceed 0.05 percent sulfur by weight; and
 - ii. for Carbon Monoxide (CO) emissions: the permittee shall limit the operation of this emissions unit to not exceed 500 hours per year.

c) Operational Restrictions

- (1) The maximum hours of operation of this emissions unit shall not exceed 500 hours per year on a rolling 12 month basis. The permittee has existing records to demonstrate compliance with this limitation upon issuance of this permit.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the following information:
 - a. the total volume of diesel fuel in gallons burned in this emissions unit;
 - b. the total hours of operation;



- c. the type and total amount of fuel, other than diesel fuel having a sulfur content of 0.05 percent sulfur by weight, burned in this emissions unit.
- (2) The permittee shall maintain monthly records of the following information for this emission unit in order to monitor compliance with the rolling, 12-month summation emission limitation:
 - a. the total emissions, in tons, for NO_x; and
 - b. the rolling, 12-monthly summation emissions total, in tons, for NO_x (the total amount of emissions calculated for the current month plus the total amount of emissions for the previous eleven calendar months).
- 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:
 - i. NO_x emissions limitation of 12.03 TPY on a rolling, 12-month basis.
 - ii. Hours of operation limitation of 500 hours per year based on a rolling, 12-month basis.
 - 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) 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.



f) Testing Requirements

(1) Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as specified by rule.

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).

(2) Emission Limitations:

Nitrogen oxide emissions shall not exceed 48.11 pounds per hour (lb/hr) and 12.03 tons per year on a rolling 12 month basis.

Applicable Compliance Methods:

The emission limitations were based upon the emission factor provided by the permittee in Permit To Install application submitted June 28, 2007 which in turn was based on manufacturer's specifications, specifically Milton CAT Power Systems, Performance Data Sheet, 9/13/06. The performance data sheet provides an emission factor of 48.11 lbs/hr of NOx emissions at maximum diesel fuel consumption. This emission factor is then multiplied by the actual hours of operation and dividing by 2000 pounds per ton to determine the actual NOx emissions in tons.

Compliance shall be demonstrated by the recordkeeping required in d)(2).

(3) Emission Limitations:

Carbon monoxide emissions shall not exceed 10.0 TPY.

Applicable Compliance Methods:

The emission limitation was based upon the emission factor provided by the permittee in Permit To Install application submitted June 28, 2007 which in turn was based on manufacturer's specifications, specifically Milton CAT Power Systems, Performance Data Sheet, 9/13/06. The performance data sheet provides an emission factor of 5.86 lbs/hr of CO emissions at maximum diesel fuel consumption. This emission factor is then multiplied by the actual hours of operation and dividing by 2000 pounds per ton to determine the actual CO emissions in tons.

(4) Emissions Limitations:

PE and PM10 emissions shall not exceed 10.0 TPY.

Applicable Compliance Method:

The emission limitations were based upon the emission factor provided by the permittee in Permit To Install application submitted June 28, 2007 which in turn was based on



manufacturer's specifications, specifically Milton CAT Power Systems, Performance Data Sheet, 9/13/06.

The performance data sheet provides an emission factor of 0.4 lb/hr of PE/PM10 emissions at maximum diesel fuel consumption. This emission factor is then multiplied by the maximum hours of operation and dividing by 2000 pounds per ton to determine the actual PE/PM10 emissions in tons.

(5) Emissions Limitations:

VOC emissions shall not exceed 10.0 TPY.

Applicable Compliance Method:

The emission limitations were based upon the emission factor provided by the permittee in Permit To Install application submitted June 28, 2007 which in turn was based on manufacturer's specifications, specifically Milton CAT Power Systems, Performance Data Sheet, 9/13/06.

The performance data sheet provides an emission factor of 1.17 lbs/hr of VOC (as NMOC) emissions at maximum diesel fuel consumption. This emission factor is then multiplied by the maximum hours of operation and dividing by 2000 pounds per ton to determine the actual VOC emissions in tons.

(6) Emissions Limitations:

SO2 emissions shall not exceed 10.0 TPY.

Applicable Compliance Method:

The actual annual emission rate shall be calculated by multiplying the actual diesel fuel usage (in mmBtu, which is to be calculated based on the maximum heat input rate times the actual hours of operation) by the emission factor from AP-42, Table 3.4-1 (10/96) and then by the weight percentage of sulfur and dividing by 2000 pounds per ton.

(7) Emission Limitation:

The sulfur content of the fuel oil shall not exceed 0.05 percent by weight.

Applicable Compliance Method:

Compliance with the fuel oil sulfur content limitation shall be demonstrated by the record of the fuel supplier certification required in d)(3).

(8) Compliance with the hours of operation in c)(1) shall be demonstrated by the recordkeeping required in d)(1).

g) Miscellaneous Requirements

(1) None.