



State of Ohio Environmental Protection Agency

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

**CERTIFIED MAIL**

Street Address:

50 West Town Street, Suite 700

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

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 14-05957**

**Fac ID: 1409040987**

**DATE: 12/13/2007**

Amylin Ohio, L.L.C.  
Earl Gregory  
8814 Tradeport Drive  
West Chester, OH 45011

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

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

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

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

Sincerely,

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section  
Division of Air Pollution Control

CC: USEPA

HCDES



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**Permit To Install  
Terms and Conditions**

**Issue Date: 12/13/2007  
Effective Date: 12/13/2007**

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**FINAL PERMIT TO INSTALL 14-05957**

Application Number: 14-05957  
Facility ID: 1409040987  
Permit Fee: **\$1800**  
Name of Facility: Amylin Ohio, L.L.C.  
Person to Contact: Earl Gregory  
Address: 8814 Tradeport Drive  
West Chester, OH 45011

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**8814 Tradeport Drive  
West Chester, Ohio**

Description of proposed emissions unit(s):  
**Expansion of pharmaceutical manufacturing - new process train and boilers.**

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

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Chris Korleski  
Director

Amylin Ohio, L.L.C.  
PTI Application: 14-05957  
Issued: 12/13/2007

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## Part I - GENERAL TERMS AND CONDITIONS

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

#### 1. Compliance Requirements

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

#### 2. Reporting Requirements

The permittee shall submit required reports in the following manner:

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

#### 3. Records Retention Requirements

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

#### 4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon

**Amylin Ohio, L.L.C.**  
**PTI Application: 14-05957**  
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the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**5. Scheduled Maintenance/Malfunction Reporting**

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

**6. Permit Transfers**

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

**7. Air Pollution Nuisance**

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

**8. Termination of Permit to Install**

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

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

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

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

#### **10. Public Disclosure**

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

#### **11. Applicability**

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

#### **12. Best Available Technology**

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

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

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

**14. Construction Compliance Certification**

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

**15. Fees**

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

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

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

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

<u>Pollutant</u>	<u>Tons Per Year</u>
VOC	7.62
PM/PM10	6.96
SO2	16.02
NOx	78.61
CO	28.91

**Issued: 12/13/2007**

Emissions Unit ID: **B002**

Issued: 12/13/2007

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. Applicable Emissions Limitations and/or Control Requirements**

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

**Operations, Property, and/or Equipment - (B002) - Steam Boiler No. 1 - 350 HP Cleaver Brooks dual fuel boiler**

<b>Applicable Rules/Requirements</b>	<b>Applicable Emissions Limitations/Control Measures</b>
OAC rule 3745-31-05(C)	See term and condition A.2.a.
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.
OAC rule 3745-17-10(B)(1)	Particulate emissions (PE) shall not exceed 0.020 pound per mmBtu of actual heat input.
OAC rule 3745-18-06(D)	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(C).
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(C).
OAC rule 3745-31-05(A)(3)(b)	See term and condition A.2.c.

**2. Additional Terms and Conditions**

- 2.a Permit to Install 14-05957 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 (SO<sub>2</sub>) 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.

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- 2.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).
- 2.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 (NOx), Carbon Monoxide (CO) and Volatile Organic Compound (VOC) emissions from this air contaminant source since the uncontrolled potential to emit for PE, PM10, NOx, CO, and VOC is less than ten tons per year.
- 2.d** The PE limitation specified in Section A.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.

**B. Operational Restrictions**

None

**C. 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 SO<sub>2</sub> 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 SO<sub>2</sub> emissions from all fuels combusted, in tons, using the calculation methods provided in Section E.1 and the actual amounts as recorded in (a) and (b) above.
- 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:

Emissions Unit ID: **B002**

- 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.

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

1. Pursuant to the NSPS, the permittee is required to report the following information at the appropriate times (if the information has not already been reported):
  - a. construction date (no later than 30 days after such date);
  - b. actual start-up date (within 15 days after such date); and,
  - c. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Hamilton County Department of Environmental Services  
250 William Howard Taft Road  
Cincinnati, OH 45219

2. 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.
3. The permittee shall submit quarterly reports to Hamilton County Department of Environmental Services of any exceedance of the fuel oil sulfur content limitation specified in Section A.2.a. If no exceedances occurred, the permittee shall state so in the report. The quarterly reports shall also contain records of the oil supplier certification for all fuel oil combusted during the reporting period including a certified statement by a responsible official that the certification records submitted represent all of the fuel oil combusted during the reporting period. The reports shall be submitted by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarters (October through December, January through March, April through June and July through September, respectively).

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**E. Testing Requirements**

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

- a. Emission Limitation:

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

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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.

b. 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).

c. Emission Limitation:

The potential to emit is less than 10.0 tons per year of SO<sub>2</sub> based on a voluntary fuel oil sulfur content restriction of 0.05 weight percent.

Applicable Compliance Method:

The annual SO<sub>2</sub> 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 SO<sub>2</sub> emission rate for both the combustion of natural gas and fuel oil usage was calculated by the

Emissions Unit ID: **B002**

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).

d. 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:

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

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where E = Emission Rate (tons per year).

e. 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).

f. 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:

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

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  $E = \text{Emission Rate (tons per year)}$ .

g. 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  $E = \text{Emission Rate (tons per year)}$ .

h. 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 term and condition C.3.

**F. Miscellaneous Requirements**

None

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**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. Applicable Emissions Limitations and/or Control Requirements**

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

**Operations, Property, and/or Equipment - (B003) - Steam boiler No. 2 - 350 HP Cleaver Brooks dual fuel boiler**

<b>Applicable Rules/Requirements</b>	<b>Applicable Emissions Limitations/Control Measures</b>
OAC rule 3745-31-05(C)	See term and condition A.2.a.
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.
OAC rule 3745-17-10(B)(1)	Particulate emissions (PE) shall not exceed 0.020 pound per mmBtu of actual heat input.
OAC rule 3745-18-06(D)	When burning No. 2 fuel oil, the emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(C).
40 CFR Part 60 Subpart Dc	The emissions limitations specified by this rule are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05(C).
OAC rule 3745-31-05(A)(3)(b)	See term and condition A.2.c.

**2. Additional Terms and Conditions**

- 2.a Permit to Install 14-05957 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 (SO<sub>2</sub>) 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.

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- 2.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).
- 2.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 (NOx), Carbon Monoxide (CO) and Volatile Organic Compound (VOC) emissions from this air contaminant source since the uncontrolled potential to emit for PE, PM10, NOx, CO, and VOC is less than ten tons per year.
- 2.d** The PE limitation specified in Section A.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.

**B. Operational Restrictions**

None

**C. 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 SO<sub>2</sub> 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 SO<sub>2</sub> emissions from all fuels combusted, in tons, using the calculation methods provided in Section E.1 and the actual amounts as recorded in (a) and (b) above.
- 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.

#### D. Reporting Requirements

1. Pursuant to the NSPS, the permittee is required to report the following information at the appropriate times (if the information has not already been reported):
  - a. construction date (no later than 30 days after such date);
  - b. actual start-up date (within 15 days after such date); and,
  - c. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Hamilton County Department of Environmental Services  
250 William Howard Taft Road  
Cincinnati, OH 45219

2. 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.
3. The permittee shall submit quarterly reports to Hamilton County Department of Environmental Services of any exceedance of the fuel oil sulfur content limitation specified in Section A.2.a. If no exceedances occurred, the permittee shall state so in the report. The quarterly reports shall also contain records of the oil supplier certification for all fuel oil combusted during the reporting period including a certified statement by a responsible official that the certification records submitted represent all of the fuel oil combusted during the reporting period. The reports shall be submitted by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarters (October through December, January through March, April through

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June and July through September, respectively).

**E. Testing Requirements**

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

- a. Emission Limitation:

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

**Issued: 12/13/2007**

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.

b. 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).

c. Emission Limitation:

The potential to emit is less than 10.0 tons per year of SO<sub>2</sub> based on a voluntary fuel oil sulfur content restriction of 0.05 weight percent.

Applicable Compliance Method:

The annual SO<sub>2</sub> 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 SO<sub>2</sub> emission rate for both the combustion of natural gas and fuel oil usage was calculated by the

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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).

d. Emission Limitation:

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

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

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where E = Emission Rate (tons per year).

e. Emission Limitation:

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

f. 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:

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

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  $E = \text{Emission Rate (tons per year)}$ .

g. 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  $E = \text{Emission Rate (tons per year)}$ .

h. 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 term and condition C.3.

**F. Miscellaneous Requirements**

None

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**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. Applicable Emissions Limitations and/or Control Requirements**

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

**Operations, Property, and/or Equipment - (B004) - Steam boiler No. 4 - 350 HP Cleaver Brooks dual fuel boiler**

<b>Applicable Rules/Requirements</b>	<b>Applicable Emissions Limitations/Control Measures</b>
OAC rule 3745-31-05(C)	See term and condition A.2.a.
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.
OAC rule 3745-17-10(B)(1)	Particulate emissions (PE) shall not exceed 0.020 pound per mmBtu of actual heat input.
OAC rule 3745-18-06(D)	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(C).
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(C).
OAC rule 3745-31-05(A)(3)(b)	See term and condition A.2.c.

**2. Additional Terms and Conditions**

- 2.a Permit to Install 14-05957 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 (SO<sub>2</sub>) 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.

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- 2.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).
- 2.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 (NOx), Carbon Monoxide (CO) and Volatile Organic Compound (VOC) emissions from this air contaminant source since the uncontrolled potential to emit for PE, PM10, NOx, CO, and VOC is less than ten tons per year.
- 2.d** The PE limitation specified in Section A.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.

**B. Operational Restrictions**

None

**C. 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 Section E.1 and the actual amounts as recorded in (a) and (b) above.
- 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.

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

1. Pursuant to the NSPS, the permittee is required to report the following information at the appropriate times (if the information has not already been reported):
  - a. construction date (no later than 30 days after such date);
  - b. actual start-up date (within 15 days after such date); and,
  - c. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Hamilton County Department of Environmental Services  
250 William Howard Taft Road  
Cincinnati, OH 45219

2. 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 fuel oil. 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.
3. The permittee shall submit quarterly reports to Hamilton County Department of Environmental Services of any exceedance of the fuel oil sulfur content limitation specified in Section A.2.a. If no exceedances occurred, the permittee shall state so in the report. The quarterly reports shall also contain records of the oil supplier certification for all fuel oil combusted during the reporting period including a certified statement by a responsible official that the certification records submitted represent all of the fuel oil combusted during the reporting period. The reports shall be submitted by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarters (October through December, January through March, April through

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June and July through September, respectively).

**E. Testing Requirements**

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

- a. 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.

- b. 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

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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).

c. Emission Limitation:

The potential to emit is less than 10.0 tons per year of SO<sub>2</sub> based on a voluntary fuel oil sulfur content restriction of 0.05 weight percent.

Applicable Compliance Method:

The annual SO<sub>2</sub> 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 SO<sub>2</sub> 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).

d. Emission Limitation:

The uncontrolled potential to emit is less than 10.0 tons per year PE/PM<sub>10</sub>.

Applicable Compliance Method:

The annual PE/PM<sub>10</sub> 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

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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:

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

where E = Emission Rate (tons per year).

e. 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:

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

where E = Emission Rate (tons per year).

**Issued: 12/13/2007**f. Emission Limitation:

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

g. Emission Limitation:

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

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

For Number 2 fuel oil combustion:

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

where E = Emission Rate (tons per year).

h. 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 term and condition C.3.

**F. Miscellaneous Requirements**

None

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. Applicable Emissions Limitations and/or Control Requirements**

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

**Operations, Property, and/or Equipment - (B007) - Hot water boiler No. 1 - 300 HP Cleaver Brooks dual fuel boiler**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(C)	See term and condition A.2.a.
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.
OAC rule 3745-17-10(B)(1)	Particulate emissions (PE) shall not exceed 0.020 pound per mmBtu of actual heat input.
OAC rule 3745-18-06(D)	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(C).
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(C).
OAC rule 3745-31-05(A)(3)(b)	See term and condition A.2.c.

**2. Additional Terms and Conditions**

- 2.a Permit to Install 14-05957 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 (SO<sub>2</sub>) 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.
- 2.b The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States

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Environmental Protection Agency (U.S. EPA), 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency (Ohio EPA).

- 2.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 (NOx), Carbon Monoxide (CO) and Volatile Organic Compound (VOC) emissions from this air contaminant source since the uncontrolled potential to emit for PE, PM10, NOx, CO, and VOC is less than ten tons per year.
- 2.d** The PE limitation specified in Section A.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.

**B. Operational Restrictions**

None

**C. 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 SO<sub>2</sub> 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 SO<sub>2</sub> emissions from all fuels combusted, in tons, using the calculation methods provided in Section E.1 and the actual amounts as recorded in (a) and (b) above.
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;

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- 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.

**D. Reporting Requirements**

1. Pursuant to the NSPS, the permittee is required to report the following information at the appropriate times (if the information has not already been reported):
  - a. construction date (no later than 30 days after such date);
  - b. actual start-up date (within 15 days after such date); and,
  - c. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Hamilton County Department of Environmental Services  
250 William Howard Taft Road  
Cincinnati, OH 45219

2. 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.
3. The permittee shall submit quarterly reports to Hamilton County Department of Environmental Services of any exceedance of the fuel oil sulfur content limitation specified in Section A.2.a. If no exceedances occurred, the permittee shall state so in the report. The quarterly reports shall also contain records of the oil supplier certification for all fuel oil combusted during the reporting period including a certified statement by a responsible official that the certification records submitted represent all of the fuel oil combusted during the reporting period. The reports shall be submitted by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarters (October through December, January through March, April through June and July through September, respectively).

## E. Testing Requirements

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

- a. Emission Limitation:

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

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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.

b. 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).

c. Emission Limitation:

The potential to emit is less than 10.0 tons per year SO<sub>2</sub> based on a voluntary fuel oil sulfur content restriction of 0.05 weight percent.

Applicable Compliance Method:

The annual SO<sub>2</sub> 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 SO<sub>2</sub> emission rate for both the combustion of natural gas and fuel oil usage was calculated by the

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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).

d. 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:

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

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where E = Emission Rate (tons per year).

e. 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).

f. Emission Limitation:

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

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

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  $E = \text{Emission Rate (tons per year)}$ .

g. Emission Limitation:

The uncontrolled potential to emit is less than 10.0 tons per year 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  $E = \text{Emission Rate (tons per year)}$ .

h. Emission Limitation:

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

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Applicable Compliance Method:

Compliance with the fuel oil sulfur content limitation shall be demonstrated by the record of the fuel supplier certification required in term and condition C.3.

**F. Miscellaneous Requirements**

None

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**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. Applicable Emissions Limitations and/or Control Requirements**

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

**Operations, Property, and/or Equipment - (B008) - Hot water boiler No. 2 - 300 HP Cleaver Brooks dual fuel boiler**

<b>Applicable Rules/Requirements</b>	<b>Applicable Emissions Limitations/Control Measures</b>
OAC rule 3745-31-05(C)	See term and condition A.2.a.
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.
OAC rule 3745-17-10(B)(1)	Particulate emissions (PE) shall not exceed 0.020 pound per mmBtu of actual heat input.
OAC rule 3745-18-06(D)	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(C).
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(C).
OAC rule 3745-31-05(A)(3)(b)	See term and condition A.2.c.

**2. Additional Terms and Conditions**

- 2.a Permit to Install 14-05957 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 (SO<sub>2</sub>) 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.

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- 2.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).
- 2.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 (NOx), Carbon Monoxide (CO) and Volatile Organic Compound (VOC) emissions from this air contaminant source since the uncontrolled potential to emit for PE, PM10, NOx, CO, and VOC is less than ten tons per year.
- 2.d** The PE limitation specified in Section A.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.

**B. Operational Restrictions**

None

**C. 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 Section E.1 and the actual amounts as recorded in (a) and (b) above.
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:

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- 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.

**D. Reporting Requirements**

1. Pursuant to the NSPS, the permittee is required to report the following information at the appropriate times (if the information has not already been reported):
  - a. construction date (no later than 30 days after such date);
  - b. actual start-up date (within 15 days after such date); and,
  - c. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Hamilton County Department of Environmental Services  
250 William Howard Taft Road  
Cincinnati, OH 45219

2. 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.
3. The permittee shall submit quarterly reports to Hamilton County Department of Environmental Services of any exceedance of the fuel oil sulfur content limitation specified in Section A.2.a. If no exceedances occurred, the permittee shall state so in the report. The quarterly reports shall also contain records of the oil supplier certification for all fuel oil combusted during the reporting period including a certified statement by a responsible official that the certification records submitted represent all of the fuel oil combusted during the reporting period. The reports shall be submitted by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarters (October through December, January through March, April through

June and July through September, respectively).

## E. Testing Requirements

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

- a. Emission Limitation:

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

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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.

b. 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).

c. Emission Limitation:

The potential to emit is less than 10.0 tons per year SO<sub>2</sub> based on a voluntary fuel oil sulfur content restriction of 0.05 weight percent.

Applicable Compliance Method:

The annual SO<sub>2</sub> 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 SO<sub>2</sub> emission rate for both the combustion of natural gas and fuel oil usage was calculated by the

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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).

d. 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:

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

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where E = Emission Rate (tons per year).

e. 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).

f. Emission Limitation:

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

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

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  $E = \text{Emission Rate (tons per year)}$ .

g. Emission Limitation:

The uncontrolled potential to emit is less than 10.0 tons per year 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  $E = \text{Emission Rate (tons per year)}$ .

h. Emission Limitation:

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

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Applicable Compliance Method:

Compliance with the fuel oil sulfur content limitation shall be demonstrated by the record of the fuel supplier certification required in term and condition C.3.

**F. Miscellaneous Requirements**

None

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**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. Applicable Emissions Limitations and/or Control Requirements**

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

**Operations, Property, and/or Equipment - (P002) - Emergency Generator No. 1**

<b>Applicable Rules/Requirements</b>	<b>Applicable Emissions Limitations/Control Measures</b>
OAC rule 3745-31-05(A)(3)	Nitrogen oxide (NOx) emissions shall not exceed 48.11 pounds per hour (lb/hr).
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.
OAC rule 3745-17-11(B)(5)(b)	Particulate emissions (PE) shall not exceed 0.062 pound per million Btu of actual heat input.
OAC rule 3745-31-05(C) 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 term and condition B.1.
OAC rule 3745-31-05(C) Voluntary restriction to avoid best available technology	See term and condition A.2.d.
OAC rule 3745-31-05(A)(3)(b)	See term and condition A.2.b.
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(C).

**2. Additional Terms and Conditions**

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the emission limitations listed in term A.1 above.
- 2.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

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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.

- 2.c** The hourly NO<sub>x</sub> emission limitation in Section A.1 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.
- 2.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 (SO<sub>2</sub>) 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.

## **B. 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.

## **C. 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 not exceeding 0.05 percent sulfur by weight, burned in this emissions unit.

Also, during the first 12 calendar months of operation, the permittee shall record the cumulative fuel use and operating hours for each calendar month.

2. The permittee shall maintain monthly records of the following information for this

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emission unit in order to monitor compliance with the rolling, 12-month summation emission limitation:

- a. the total emissions, in tons, for NO<sub>x</sub>; and
- b. the rolling, 12-monthly summation emissions total, in tons, for NO<sub>x</sub> (the total amount of emissions calculated for the current month plus the total amount of emissions for the previous eleven calendar months).

**D. Reporting Requirements**

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any fuel burned in this emissions unit other than diesel fuel with a sulfur content of less than or equal to 0.05 weight percent. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 30 days after the deviation occurs.
2. The permittee shall submit quarterly deviation (excursion) reports to the Hamilton County Department of Environmental Services which identify all exceedances of the following:
  - a. an identification of all exceedances of the rolling, 12-month operating hour limitation; and
  - b. an identification of all exceedances of the rolling, 12-month emission limitation for NO<sub>x</sub>.
3. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

**E. Testing Requirements**

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

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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).

b. 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.

c. 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.

d. Emission limitation:

PE, particulate matter emissions 10 microns and less in diameter and volatile organic compounds shall be less than ten tons per year.

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

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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.

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.

- e. Emission limitation:  
Sulfur dioxide emissions shall be less than ten tons per year

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**Emissions Unit ID: P002**

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.

2. Compliance with the fuel usage limitations in term and condition A.2.d shall be demonstrated by the record keeping in term and condition C.1.
3. Compliance with the operating limitation in term and condition B.1 shall be demonstrated by the record keeping in term and condition C.1.

**F. Miscellaneous Requirements**

None

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. Applicable Emissions Limitations and/or Control Requirements**

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

**Operations, Property, and/or Equipment - (P003) - Emergency Generator No. 2**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	Nitrogen oxide (NOx) emissions shall not exceed 48.11 pounds per hour (lb/hr).
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.
OAC rule 3745-17-11(B)(5)(b)	Particulate emissions (PE) shall not exceed 0.062 pound per million Btu of actual heat input.
OAC rule 3745-31-05(C) 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 term and condition B.1.
OAC rule 3745-31-05(C) Voluntary restriction to avoid best available technology	See term and condition A.2.d.
OAC rule 3745-31-05(A)(3)(b)	See term and condition A.2.b.
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(C).

**2. Additional Terms and Conditions**

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the emission limitations listed in term A.1 above.
- 2.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

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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.

- 2.c** The short term emission limitation in Section A.1 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.
- 2.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 (SO<sub>2</sub>) 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.

## **B. 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.

## **C. 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 not exceeding 0.05 percent sulfur by weight, burned in this emissions unit.

Also, during the first 12 calendar months of operation, the permittee shall record the cumulative fuel use and operating hours for each calendar month.

2. The permittee shall maintain monthly records of the following information for this emissions unit in order to monitor compliance with the rolling, 12-month summation emission limitation:
  - a. the total emissions, in tons, for NO<sub>x</sub>; and
  - b. the rolling, 12-monthly summation emissions total, in tons, for NO<sub>x</sub> (the total amount of emissions calculated for the current month plus the total amount of emissions for the previous eleven calendar months).

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

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any fuel burned in this emissions unit other than diesel fuel with a sulfur content of less than or equal to 0.05 weight percent. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 30 days after the deviation occurs.
2. The permittee shall submit quarterly deviation (excursion) reports to the Hamilton County Department of Environmental Services which identify all exceedances of the following:
  - a. an identification of all exceedances of the rolling, 12-month operating hour limitation; and
  - b. an identification of all exceedances of the rolling, 12-month emission limitation for NO<sub>x</sub>.
3. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

#### **E. Testing Requirements**

1. Compliance with the emission limitations in Section A of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitation:  
Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as specified by rule.

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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).

b. 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.

c. 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.

d. Emission limitation:

PE, particulate matter emissions 10 microns and less in diameter and volatile organic compounds shall be less than ten tons per year.

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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.

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.

e. Emission limitation:

Sulfur dioxide emissions shall be less than ten tons per year.

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.

2. Compliance with the fuel usage limitations in term and condition A.2.d shall be demonstrated by the record keeping in term and condition C.1.
3. Compliance with the operating limitation in term and condition B.1 shall be demonstrated by the record keeping in term and condition C.1.

## **F. Miscellaneous Requirements**

None

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. Applicable Emissions Limitations and/or Control Requirements**

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

**Operations, Property, and/or Equipment - (P004) - Emergency Generator No. 3**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	Nitrogen oxide (NOx) emissions shall not exceed 48.11 pounds per hour (lb/hr).
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.
OAC rule 3745-17-11(B)(5)(b)	Particulate emissions (PE) shall not exceed 0.062 pound per million Btu of actual heat input.
OAC rule 3745-31-05(C) 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 term and condition B.1.
OAC rule 3745-31-05(C) Voluntary restriction to avoid best available technology	See term and condition A.2.d.
OAC rule 3745-31-05(A)(3)(b)	See term and condition A.2.b.
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(C).

**2. Additional Terms and Conditions**

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the emission limitations listed in term A.1 above.
- 2.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

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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.

- 2.c** The short term emission limitation in Section A.1 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 emissions limitation.
- 2.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 (SO<sub>2</sub>) 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.

## **B. 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.

## **C. 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 not exceeding 0.05 percent sulfur by weight, burned in this emissions unit.

Also, during the first 12 calendar months of operation, the permittee shall record the cumulative fuel use and operating hours for each calendar month.

2. The permittee shall maintain monthly records of the following information for this emissions unit in order to monitor compliance with the rolling, 12-month summation emissions limitation:
  - a. the total emissions, in tons, for NO<sub>x</sub>; and
  - b. the rolling, 12-monthly summation emissions total, in tons, for NO<sub>x</sub> (the total amount of emissions calculated for the current month plus the total amount of emissions for the previous eleven calendar months).

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

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any fuel burned in this emissions unit other than diesel fuel with a sulfur content of less than or equal to 0.05 weight percent. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 30 days after the deviation occurs.
2. The permittee shall submit quarterly deviation (excursion) reports to the Hamilton County Department of Environmental Services which identify all exceedances of the following:
  - a. an identification of all exceedances of the rolling, 12-month operating hour limitation; and
  - b. an identification of all exceedances of the rolling, 12-month emission limitation for NO<sub>x</sub>.
3. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

#### **E. Testing Requirements**

1. Compliance with the emission limitations in Section A of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitation:  
Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as specified by rule.

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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).

b. 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.

c. 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.

d. Emission limitation:

PE, particulate matter emissions 10 microns and less in diameter and volatile organic compounds shall be less than ten tons per year.

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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.

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.

e. Emission limitation:

Sulfur dioxide emissions shall be less than ten tons per year.

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.

2. Compliance with the fuel usage limitations in term and condition A.2.d shall be demonstrated by the record keeping in term and condition C.1.
3. Compliance with the operating limitation in term and condition B.1 shall be demonstrated by the record keeping in term and condition C.1.

## **F. Miscellaneous Requirements**

None

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**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. Applicable Emissions Limitations and/or Control Requirements**

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

**Operations, Property, and/or Equipment -(P007) - Production Line No. 2**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
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.
OAC rule 3745-17-11(B)	Particulate emissions (PE) shall not exceed 0.55 pound per hour.
OAC rule 3745-31-05(A)(3)(b)	See A.2.b.

**2. Additional Terms and Conditions**

- 2.a The emission limitation specified in Section A is greater than the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with this emission limitation.
- 2.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.

**B. Operational Restrictions**

None

**C. Monitoring and/or Recordkeeping Requirements**

1. The permit to install for this emissions unit P007 was evaluated based on the actual

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materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied to this emissions unit for each toxic pollutant, using data from the permit to install application, and modeling was performed for the toxic pollutant(s) emitted at over a ton per year using the SCREEN3 model or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the use of the SCREEN3 (or other approved) model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: methylene chloride

TLV (ug/m3): 173,681

Maximum Hourly Emission Rate (lbs/hr): 7.33

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 498

MAGLC (ug/m3): 4135

2. The above described evaluation determined that the maximum ground level concentration for the new or modified source was less than 80% of the MAGLC. Per ORC 3704.03(F)(4)(d), the owner or operator shall submit an annual report that describes any changes to the emissions unit that affect the air toxic modeling. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
  - a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a compound or chemical with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled, as documented in the most current version of the American Conference of Governmental Industrial Hygienists' (ACGIH's) handbook entitled "TLVs and BEIs" ("Threshold Limit Values for Chemical Substances and Physical Agents, Biological Exposure Indices");
  - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
  - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

The permittee shall submit annual reports that describe any changes to this emissions unit which affect the air toxic modeling. If no changes were made during the year, then a report shall be submitted stating that no changes were made. This report is due by January 31 of each year and shall cover the previous calendar year.

**D. Reporting Requirements**

None

**E. Testing Requirements**

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

- a. Emission Limitations:  
0.55 pound per hour of PE;  
less than 10.0 tons per year of PE and PM10 emissions

Applicable Compliance Method:

Hourly emissions of 0.55 pound per hour were calculated for this emissions unit based on Table I in OAC rule 3745-17-11 and a process weight rate of less than 0.05 ton/hr for the process.

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

Compliance with the annual PE limitation shall be determined by multiplying the maximum hourly PE by the maximum hours of operation and converting to TPY by multiplying by 1 ton/2000 lb.

All PE was assumed to be PM10.

- b. Emission Limitation:  
less than 10.0 tons per year of VOC

Applicable Compliance Method:

Compliance with the annual emission limitation shall be demonstrated by the VOC emission calculation methodology documented in permit to install

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application 14-05957, received on June 28, 2007. The maximum daily VOC emission rate of 21.15 lbs/day x 365 days/year / 2000 lbs/ton = 3.86 TPY of VOC.

c. 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).

**F. Miscellaneous Requirements**

None