



State of Ohio Environmental Protection Agency

STREET ADDRESS:

MAILING ADDRESS:

Lazarus Government Center  
50 W. Town St., Suite 700  
Columbus, Ohio 43215

TELE: (614) 644-3020 FAX: (614) 644-3184  
www.epa.state.oh.us

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

8/22/2008

Greg Patterson  
Procter & Gamble Company Health Care Research Center  
8700 Mason-Montgomery Road  
Mason, OH 45040-9462

Certified Mail  
Facility ID: 1483090334  
Permit Number: P0100777  
County: Warren

RE: DRAFT AIR POLLUTION TITLE V PERMIT  
Permit Type: Renewal

Dear Permit Holder:

A draft of the OAC Chapter 3745-77 Title V permit for the referenced facility has been issued. The purpose of this draft is to solicit public comments. A public notice will appear in the Ohio EPA Weekly Review and the local newspaper, The Western Star. A copy of the public notice, the Statement of Basis, and the draft permit are enclosed. This permit has been posted to the Division of Air Pollution Control (DAPC) Web page <http://www.epa.state.oh.us/dapc> in Microsoft Word and Adobe Acrobat format. Comments will be accepted as a marked-up copy of the permit or in narrative format. Any comments must be sent to the following:

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

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

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper. You will be notified in writing if a public hearing is scheduled. A decision on processing the Title V permit will be made after consideration of comments received and oral testimony if a public hearing is conducted. You will then be provided with a Preliminary Proposed Title V permit and another opportunity to comment prior to the 45-day Proposed Title V permit submittal to U.S. EPA Region 5. The permit will be issued final after U.S. EPA review is completed and no objections to the final issuance have been received. If you have any questions, please contact Hamilton County Dept. of Environmental Services at (513)946-7777.

Sincerely,

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

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

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



PUBLIC NOTICE  
ISSUANCE OF DRAFT AIR POLLUTION Title V Permit  
Procter & Gamble Company Health Care Research Center

Issue Date: 8/22/2008

Permit Number: P0100777

Permit Type: Renewal

Permit Description: Title V Renewal Application

Facility ID: 1483090334

Facility Location: Procter & Gamble Company Health Care Research Center  
8700 Mason Montgomery Road,  
Mason, OH 45040-9462

Facility Description: Research and Development in the Social Sciences and Humanities

Chris Korleski, Director of the Ohio Environmental Protection Agency, 50 West Town Street, Columbus Ohio, has issued a draft action of an air pollution control Title V operating permit for the facility at the location identified above on the date indicated. Comments concerning this draft action, or a request for a public meeting, must be sent in writing no later than thirty (30) days from the date this notice is published. All comments, questions, requests for permit applications or other pertinent documentation, and correspondence concerning this action must be directed to Alberta Mellon at Hamilton County Dept. of Environmental Services, 250 William Howard Taft Pkwy. or (513)946-7777. The permit, which includes a detailed description of the operations, and associated statement of basis for the permit requirements, can be downloaded from the Web page: [www.epa.state.oh.us/dapc](http://www.epa.state.oh.us/dapc)



# Statement of Basis For Air Pollution Title V Permit

Facility ID:	1483090334
Facility Name:	Procter & Gamble Company Health Care Research Center
Facility Description:	Health care research center
Facility Address:	8700 Mason Montgomery Road, Mason, OH 45040-9462
Permit #:	P0100777, Renewal
<p>This facility is subject to Title V because it is major for:</p> <p> <input type="checkbox"/> Lead                <input type="checkbox"/> Sulfur Dioxide                <input checked="" type="checkbox"/> Carbon Monoxide                <input type="checkbox"/> Volatile Organic Compounds                <input checked="" type="checkbox"/> Nitrogen Oxides  <input type="checkbox"/> Particulate Matter ≤ 10 microns                <input type="checkbox"/> Single Hazardous Air Pollutant                <input type="checkbox"/> Combined Hazardous Air Pollutants  <input type="checkbox"/> Maximum Available Control Technology Standard(s)         </p>	

## A. Standard Terms and Conditions

Has each insignificant emissions unit been reviewed to confirm it meets the definition in OAC rule 3745-77-01 (U)?	Yes
Were there any common control issues associated with this facility? If yes, provide a summary of those issues and explain how the DAPC decided to resolve them.	No
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a minor permit modification per OAC rule 3745-77-08(C)(1)	N/A
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a significant permit modification per OAC rule 3745-77-08(C)(3)	N/A
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a reopening per OAC rule 3745-77-08(D)	N/A
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document resulting from a renewal per OAC rule 3745-77-08(E)	N/A

**B. Facility-Wide Terms and Conditions**

Term and Condition (paragraph)	Basis		<u>Comments</u>
	SIP (3745- )	Other	
B.2	77-03(A)		Listing of insignificant emission units.

**C. Emissions Unit Terms and Conditions**

<p>Key:                  EU = emissions unit ID                  ND = negative declaration (i.e., term that indicates that a particular rule(s) is (are) not applicable to a specific emissions unit)                  OR = operational restriction                  M = monitoring requirements                  St = streamlining term used to replace a PTI monitoring, record keeping, or reporting requirement with an equivalent or more stringent requirement</p> <p align="right">                 ENF = did noncompliance issues drive the monitoring requirements?                  R = record keeping requirements                  Rp = reporting requirements                  ET = emission testing requirements (not including compliance method terms)                  Misc = miscellaneous requirements             </p>															
EU(s)	Limitation	Basis		ND	OR	M	St	ENF	R	St	Rp	St	ET	Misc	<u>Comments</u>
		SIP (3745- )	Other												
B001-B003	Visible particulate emissions shall not exceed 20% opacity, as a six-minute average, except for one six-minute period per hour of not more than 27% opacity.		40	No	Yes	Yes	No	No	Yes	No	Yes	No	No	No	This emission unit is not subject to CAM OR-This emission units is restricted to burning inherently clean fuel (Natural Gas and Distillate Oil) ET-No Emission testing is required based on the above noted operational restriction.

B001-B003	0.50 lb SO2/MMBtu 0.15 lb NOx/MMBtu 0.20 lb CO/ 0.015 VOC/MMBtu	31-05 (A) (3)		No	Yes	Yes	No	No	Yes	No	Yes	No	No	No	This emission unit is not subject to CAM OR-This emission units is restricted to burning Natural Gas and Distilate Oil. The lb/MMBTU emission limitations are based on the EU's potential to emit for these fuels. ET-No Emission testing is required based on the above noted operational restriction.
B001-B003	Combined emissions from B001-B003 of: 8.55 TPY PE 16.43 TPY VOC 219 TPY CO 164.25 TPY NOx 18.38 TPY SO2	31-05 (D) (1) (a)		No	Yes	Yes	No	No	Yes	No	Yes	No	No	No	This emission unit is not subject to CAM OR-The fuel usage restriction noted in c)(1) of the permits limits the potential emissions to the TPY emission limits noted.. ET-No Emission testing is required based on the above noted operational restriction.
P001-P003	Visible particulate emissions shall not exceed 20% opacity, as a six-minute average	17-07 (A)		No	Yes	Yes	No	No	Yes	No	Yes	No	No	No	This emission unit is not subject to CAM OR-This emission units is restricted to burning inherently clean fuel (Distilate Oil) ET-No Emission testing is required based on the above noted operational restriction.
P001-P003	7.12 lb/hr SO2 45.1 lbs/hr NOx 11.98 lbs/hr CO 1.27 lbs/hr VOC	31-05 (A) (3)		No	Yes	Yes	No	No	Yes	No	Yes	No	No	No	This emission unit is not subject to CAM OR-This emission units is restricted to burning Natural Gas and Distilate Oil. The lbs/hr emission limitations are based on the EU's potential to emit for these fuels. ET-No Emission testing is required based on the above noted operational restriction.

P001-P003	Combined emissions from P001-P003 of: 5.18 TPY PE 1.33 TPY VOC 12.6 TPY CO 47.4 TPY NOx 7.5 TPY SO2	31-05 (D) (a)		No	Yes	Yes	No	No	Yes	No	Yes	No	No	No	This emission unit is not subject to CAM OR-The fuel usage restriction noted in c)(1) of the permits limits the potential emissions to the TPY emission limits noted.. ET-No Emission testing is required based on the above noted operational restriction.
P001-P003	.062 PE/MMBTU of heat input actual lb	17-11 (B) (5) (b)		No	Yes	Yes	No	No	Yes	No	Yes	No	No	No	This emission unit is not subject to CAM OR-This emission units is restricted to burning Distillate Oil. The lb/MMBTU emission limitation is equal to the the EU's potential to emit for this fuels. ET-No Emission testing is required based on the above noted operational restriction.
P001-P003	.05 SO2/MMBTU of heat input actual lb	18-06 (G)		No	Yes	Yes	No	No	Yes	No	Yes	No	No	No	This emission unit is not subject to CAM OR-This emission units is restricted to burning Distillate Oil. The lb/MMBTU emission limitation is equal to the the EU's potential to emit for this fuels. ET-No Emission testing is required based on the above noted operational restriction.



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

**DRAFT**

**Air Pollution Title V Permit  
for**

**Procter & Gamble Company Health Care Research Center**

Facility ID: 1483090334

Permit Number: P0100777

Permit Type: Renewal

Issued: 8/22/2008

Effective: To be entered upon final issuance

Expiration: To be entered upon final issuance





State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Air Pollution Title V Permit**  
for  
Procter & Gamble Company Health Care Research Center

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State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Draft Title V Permit**

**Permit Number:** P0100777

**Facility ID:** 1483090334

**Effective Date:** To be entered upon final issuance

# Authorization

Facility ID: 1483090334  
Facility Description: Health care research center  
Application Number(s): A0032519  
Permit Number: P0100777  
Permit Description: Title V Renewal Application  
Permit Type: Renewal  
Issue Date: 8/22/2008  
Effective Date: To be entered upon final issuance  
Expiration Date: To be entered upon final issuance  
Superseded Permit Number: P0100776

This document constitutes issuance of an OAC Chapter 3745-77 Title V permit to:

Procter & Gamble Company Health Care Research Center  
8700 Mason Montgomery Road  
Mason, OH 45040-9462

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

Hamilton County Dept. of Environmental Services  
250 William Howard Taft Pkwy.  
Cincinnati, OH 45219-2660  
(513)946-7777

The above named entity is hereby granted a Title V permit pursuant to Chapter 3745-77 of the Ohio Administrative Code. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. You will be sent a notice approximately 18 months prior to the expiration date regarding the renewal of this permit. If you do not receive a notice, please contact the Hamilton County Dept. of Environmental Services. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, if a timely renewal application is submitted. A renewal application will be considered timely if it is submitted no earlier than 18 months (540 days) and no later than 6 months (180 days) prior to the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski  
Director



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Draft Title V Permit**

**Permit Number:** P0100777

**Facility ID:** 1483090334

**Effective Date:** To be entered upon final issuance

## **A. Standard Terms and Conditions**



**1. Federally Enforceable Standard Terms and Conditions**

- a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:
  - (1) Standard Term and Condition A. 24., Reporting Requirements Related to Monitoring and Record Keeping Requirements of State-Only Enforceable Permit Terms and Conditions
  - (2) Standard Term and Condition A. 25., Records Retention Requirements for State-Only Enforceable Permit Terms and Conditions
  - (3) Standard Term and Condition A. 27., Scheduled Maintenance/Malfunction Reporting
  - (4) Standard Term and Condition A. 29., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations  
*(Authority for term: ORC 3704.036(A))*

**2. Monitoring and Related Record Keeping and Reporting Requirements**

- a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit), the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
  - (1) The date, place (as defined in the permit), and time of sampling or measurements.
  - (2) The date(s) analyses were performed.
  - (3) The company or entity that performed the analyses.
  - (4) The analytical techniques or methods used.
  - (5) The results of such analyses.
  - (6) The operating conditions existing at the time of sampling or measurement.  
*(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))*
- b) 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 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.  
*(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))*
- c) The permittee shall submit required reports in the following manner:
  - (1) All reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations caused by malfunctions shall be submitted in the following manner:



Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year in accordance with Standard Term and Condition A.2.c)(2) below; and each report shall cover the previous calendar quarter. An exceedance of the visible emission limitations specified in OAC rule 3745-17-07(A)(1) that is caused by a malfunction is not a violation and does not need to be reported as a deviation if the owner or operator of the affected air contaminant source or air pollution control equipment complies with the requirements of OAC rule 3745-17-07(A)(3)(c).

In accordance with OAC rule 3745-15-06, a malfunction reportable under OAC rule 3745-15-06(B) constitutes a violation of an emission limitation (or control requirement) and, therefore, is a deviation of the federally enforceable permit requirements. Even though verbal notifications and written reports are required for malfunctions pursuant to OAC rule 3745-15-06, the written reports required pursuant to this term must be submitted quarterly to satisfy the prompt reporting provision of OAC rule 3745-77-07(A)(3)(c).

In identifying each deviation caused by a malfunction, the permittee shall specify the emission limitation(s) (or control requirement(s)) for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. For a specific malfunction, if this information has been provided in a written report that was submitted in accordance with OAC rule 3745-15-06, the permittee may simply reference that written report to identify the deviation. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing on a quarterly basis.

Any scheduled maintenance, as referenced in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described above for malfunctions.

*(Authority for term: OAC rule 3745-77-07(A)(3)(c))*

- (2) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit or, in some cases, in section B. Facility-Wide Terms and Conditions of this Title V permit), all reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations of the emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as provided below, the written reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

In identifying each deviation, the permittee shall specify the emission limitation(s), operational restriction(s), and/or control device operating parameter limitation(s) for which the deviation occurred, describe each deviation, and provide the estimated magnitude and duration of each deviation.



These written deviation reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations. Full compliance with OAC rule 3745-77-07(A)(3)(c) requires reporting of all other deviations of the federally enforceable requirements specified in the permit as required by such rule.

If an emissions unit has a deviation reporting requirement for a specific emission limitation, operational restriction, or control device operating parameter limitation that is not on a quarterly basis (e.g., within 30 days following the end of the calendar month, or within 30 or 45 days after the exceedance occurs), that deviation reporting requirement satisfies the reporting requirements specified in this Standard Term and Condition for that specific emission limitation, operational restriction, or control device parameter limitation. Following the provisions of that non-quarterly deviation reporting requirement will also satisfy (for the deviations so reported) the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations, and additional quarterly deviation reports for that specific emission limitation, operational restriction, or control device parameter limitation are not required pursuant to this Standard Term and Condition.

See A.29 below if no deviations occurred during the quarter.

*(Authority for term: OAC rule 3745-77-07(A)(3)(c))*

- (3) All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) for other deviations of the federally enforceable permit requirements which are not reported in accordance with Standard Term and Condition A.2)c)(2) above shall be submitted in the following manner:

Unless otherwise specified by rule, written reports that identify deviations of the following federally enforceable requirements contained in this permit; Standard Terms and Conditions: A.3, A.4, A.5, A.7.e), A.8, A.13, A.15, A.19, A.20, A.21, and A.23 of this Title V permit, as well as any deviations from the requirements in section C. Emissions Unit Terms and Conditions of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with Standard Term and Condition A.2.c)(2) above shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency by January 31 and July 31 of each year; and each report shall cover the previous six calendar months. Unless otherwise specified by rule, all other deviations from federally enforceable requirements identified in this permit shall be submitted annually as part of the annual compliance certification, including deviations of federally enforceable requirements not specifically addressed by permit or rule for the insignificant activities or emissions levels (IEU) identified in section B. Facility-Wide Terms and Conditions of this Title V permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

In identifying each deviation, the permittee shall specify the federally enforceable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation.

These semi-annual and annual written reports shall satisfy the reporting requirements of OAC rule 3745-77-07(A)(3)(c) for any deviations from the federally enforceable requirements contained in this permit that are not reported in accordance with Standard Term and Condition A.2.c)(2) above.



If no such deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no such deviations occurred during that period.

*(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii) and OAC rule 3745-77-07(A)(13)(b))*

- (4) Each written report shall be signed by a responsible official certifying that, "based on information and belief formed after reasonable inquiry, the statements and information in the report (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."

*(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))*

- (5) Reports of any required monitoring and/or record keeping information shall be submitted to Hamilton County Dept. of Environmental Services.

*(Authority for term: OAC rule 3745-77-07(A)(3)(c))*

### **3. Scheduled Maintenance**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06(A)(3), any scheduled maintenance 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). Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described for malfunctions in Standard Term and Condition A.2.c)(1) above.

*(Authority for term: OAC rule 3745-77-07(A)(3)(c))*

### **4. Risk Management Plans**

If applicable, the permittee shall develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq. ("Act"); and, pursuant to 40 C.F.R. 68.215(a), the permittee shall submit either of the following:

- a) a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or

- b) as part of the compliance certification submitted under 40 C.F.R. 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 C.F.R. Part 68 and OAC Chapter 3745-104, including the registration and submission of the risk management plan.

*(Authority for term: OAC rule 3745-77-07(A)(4))*

### **5. Title IV Provisions**

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

*(Authority for term: OAC rule 3745-77-07(A)(5))*



**6. Severability Clause**

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

*(Authority for term: OAC rule 3745-77-07(A)(6))*

**7. General Requirements**

- a) The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c) This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with Standard Term and Condition A.11 below. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d) This permit does not convey any property rights of any sort, or any exclusive privilege.
- e) 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 request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.
- f) Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable when:
  - (1) the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or
  - (2) the permittee no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or



(3) a combination of (1) and (2) above.

The permittee shall continue to comply with all applicable OAC Chapter 3745-31 requirements for all regulated air contaminant sources once this permit ceases to be enforceable. The permittee shall comply with any residual requirements, such as quarterly deviation reports, semi-annual deviation reports, and annual compliance certifications covering the period during which this Title V permit was enforceable. All records relating to this permit must be maintained in accordance with law.

*(Authority for term: OAC rule 3745-77-01(W), OAC rule 3745-77-07(A)(3)(b)(ii), OAC rule 3745-77(A)(7))*

**8. 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.

*(Authority for term: OAC rule 3745-77-07(A)(8))*

**9. Marketable Permit Programs**

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

*(Authority for term: OAC rule 3745-77-07(A)(9))*

**10. Reasonably Anticipated Operating Scenarios**

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these standard terms and conditions shall apply to all operating scenarios authorized in this permit.

*(Authority for term: OAC rule 3745-77-07(A)(10))*

**11. Reopening for Cause**

This Title V permit will be reopened prior to its expiration date under the following conditions:

- a) Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.
- b) This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.
- c) The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate



statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.

- d) The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.  
*(Authority for term: OAC rules 3745-77-07(A)(12) and 3745-77-08(D))*

## **12. Federal and State Enforceability**

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

*(Authority for term: OAC rule 3745-77-07(B))*

## **13. Compliance Requirements**

- a) Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
  - (1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
  - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
  - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
  - (4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c) The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
  - (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
  - (2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.



d) Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA in the following manner and with the following content:

(1) Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted (i.e., postmarked) on or before April 30th of each year during the permit term.

(2) Compliance certifications shall include the following:

(a) An identification of each term or condition of this permit that is the basis of the certification.

(b) The permittee's current compliance status.

(c) Whether compliance was continuous or intermittent.

(d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.

(e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.

(3) Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

*(Authority for term: OAC rules 3745-77-07(C)(1),(2),(4) and (5) and ORC section 3704.03(L))*

#### **14. Permit Shield**

a) Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.

b) This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

*(Authority for term: OAC rule 3745-77-07(F))*

#### **15. Operational Flexibility**

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the



Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

*(Authority for term: OAC rules 3745-77-07(H)(1) and (2))*

**16. Emergencies**

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

*(Authority for term: OAC rule 3745-77-07(G))*

**17. Off-Permit Changes**

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

- a) The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition.
- b) The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emissions levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.
- c) The change shall not qualify for the permit shield under OAC rule 3745-77-07(F).
- d) The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.
- e) The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit-to-install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

*(Authority for term: OAC rule 3745-77-07(I))*

**18. Compliance Method Requirements**

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the



permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.  
*(This term is provided for informational purposes only.)*

**19. Insignificant Activities or Emissions Levels**

Each IEU that has one or more applicable requirements shall comply with those applicable requirements.  
*(Authority for term: OAC rule 3745-77-07(A)(1))*

**20. Permit to Install Requirement**

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.  
*(Authority for term: OAC rule 3745-77-07(A)(1))*

**21. 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.  
*(Authority for term: OAC rule 3745-77-07(A)(1))*

**22. Permanent Shutdown of an Emissions Unit**

The permittee may notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification from the responsible official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the responsible official that the emissions unit was permanently shut down.

After the date on which an emissions unit is permanently shut down (i.e., that has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31 and therefore ceases to meet the definition of an "emissions unit" as defined in OAC rule 3745-77-01(O)), rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the date of the certification and submission to Ohio EPA, to meet any Title V permit requirements applicable to that emissions unit, except for any residual requirements, such as the quarterly deviation reports, semi-annual deviation reports and annual compliance certification covering the period during which the emissions unit last operated. All records relating to the shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law.

No emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit to install pursuant to OAC Chapter 3745-31.  
*(Authority for term: OAC rule 3745-77-01)*

**23. Title VI Provisions**

If applicable, the permittee shall comply with the standards for recycling and reducing emissions of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:



- a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.
- b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.
- c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.  
*(Authority for term: OAC rule 3745-77-01(H)(11))*

**24. Reporting Requirements Related to Monitoring and Record Keeping Requirements Under State Law Only**

The permittee shall submit required reports in the following manner:

- a) Reports of any required monitoring and/or record keeping 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 (i) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) 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. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. 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.)

**25. Records Retention Requirements Under State Law Only**

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.

**26. Inspections and Information Requests**

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio



EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

*(Authority for term: OAC rule 3745-77-07(C))*

**27. 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).

**28. 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.

*(Authority for term: OAC rule 3745-77-01(C))*

**29. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations**

If no emission limitation (or control requirement), operational restriction and/or control device parameter limitation 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) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

The permittee is not required to submit a quarterly report which states that no deviations occurred during that quarter for the following situations:

- a) where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in Standard Term and Condition A.2.c)(2); or
- b) where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potentials to emit; or
- c) where the company's responsible official has certified that an emissions unit has been permanently shut down.



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Draft Title V Permit**

**Permit Number:** P0100777

**Facility ID:** 1483090334

**Effective Date:** To be entered upon final issuance

## **B. Facility-Wide Terms and Conditions**



1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
  - a) None.
2. The following insignificant emissions units are located at this facility:
  - a) P004 - diesel operated fire pump; (PTI 14-02713) and
  - b) T001 - 75,000-gallon distillate oil storage tank (PTI 14-02713)

Each insignificant emissions unit at this facility must comply with all applicable state and federal regulations, as well as any emission limitations and/or control requirements contained within a permit to install for the emissions unit. Insignificant emissions units listed above that are not subject to specific permit to install requirements are subject to one or more applicable requirements contained in the SIP-approved versions of OAC Chapters 3745-17, 3745-18, and 3745-21



State of Ohio Environmental Protection Agency  
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## **C. Emissions Unit Terms and Conditions**



1. **B001, Boiler No. 3**

**Operations, Property and/or Equipment Description:**

100 MMBTU/Hr natural gas/distillate oil fired boiler.

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 14-02713)	This emissions unit shall not exceed the following limitations:  0.50 lb of sulfur dioxide (SO <sub>2</sub> )/MMBtu of actual heat input; 0.15 lb of nitrogen oxides (NO <sub>x</sub> )/MMBtu of actual heat input; 0.20 lb of carbon monoxide(CO)/MMBtu of actual heat input; and 0.015 lb of volatile organic compounds (VOC)/MMBtu of actual heat input.  The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(D)(1)(a), 3745-17-10(B)(1), 3745-21-08(B) and 40 CFR Part 60 Subpart Dc.
b.	OAC rule 3745-31-05(D)(1)(a) (PTI 14-02713)	See b)(2)b. and c)(1).
c.	OAC rule 3745-17-07(A)	The visible emission limitations specified in OAC 3745-17-07(A) are less stringent than the visible emission limitations specified in 40 CFR Part 60 Subpart Dc
d.	OAC rule 3745-17-10(B)(1)	The particulate emissions (PE) from this emissions unit shall not exceed 0.020 lb per MMBtu of actual heat input.
e.	OAC rule 3745-18-06(D)	The sulfur dioxide emission limitation specified in OAC 3745-18-06(D) is less stringent than the sulfur dioxide emission limitation established in accordance with



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		OAC rule 3745-31-05(A)(3).
f.	OAC rule 3745-21-08(B)	See b)(2)a.
g.	40 CFR Part 60 Subpart Dc	Excluding periods of startup, shutdown, or malfunction, visible particulate emissions shall not exceed 20% opacity, as a six-minute average, except for one six-minute period per hour of not more than 27% opacity.

(2) Additional Terms and Conditions

- a. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology (BAT) requirements established in PTI No. 14-02713. The design of the emissions unit and the technology associated with the current operating practices satisfy the BAT requirements.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. On June 24, 2003, the rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP); however, until the U.S. EPA approves the revision to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- b. The total combined emissions from emissions units B001-B003 shall not exceed the following based on a rolling, 12-month summation:

8.55 TPY of PE;

16.43 TPY of VOC;

219.0 TPY of CO;

164.25 TPY of NOx; and

18.38 TPY SO<sub>2</sub>.

For purposes of Prevention of Significant Deterioration and non-attainment review applicability, all PM<sub>10</sub> emissions are assumed to be PE.

c) Operational Restrictions

- (1) The total amount of distillate fuel oil burned in emissions units B001-B003, combined, shall not exceed 500,000 gallons per year based upon a rolling, 12-month summation.

(Authority for term: OAC rules 3745-31-05(D)(1)(a) and 3745-77-07(A)(1))



- (2) When burning fuel oil in this emissions unit, the permittee shall only use distillate oil (fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396-78, "Standard Specification for Fuel Oils") in this emissions unit. The sulfur content of the distillate oil shall not exceed 0.5 percent sulfur by weight.

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1))

- (3) The permittee shall burn only natural gas and/or distillate fuel oil in this emissions unit

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1))

- (4) The quality of the oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in this permit

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1))

d) **Monitoring and/or Recordkeeping Requirements**

- (1) The permittee shall maintain the records specified in either Option 1 or Option 2 below to document the quality of the fuel oil burned in this emission unit.

Option 1:

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

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the Director..

Option 2

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

a. **Alternative 1:**

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). The sulfur dioxide emission rate shall be



calculated in accordance with the formula specified in OAC rule 3745-18-04(F). A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.

b. Alternative 2:

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

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as ASTM methods D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the Director.

(Authority for term: OAC rules 3745-31-05(A)(3), OAC 3745-18-04, and 3745-77-07(C)(1))

(2) The permittee shall collect and record the following information on a monthly basis:

- a. The total amounts of natural gas and fuel oil burned in emissions units B001-B003, combined.
- b. The rolling, 12-month summation of the fuel oil usage totals recorded in d)(2)a.. (i.e., the current month's total added to the previous 11-month total).

(Authority for term: OAC rules 3745-31-05(D)(1)(a) and 3745-77-07(C)(1))

(3) For each day during which the permittee burns a fuel other than natural gas and/or distillate oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-77-07(C)(1))

(4) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install 14-02713: d)(1)-d)(3). The monitoring and record



keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

e) Reporting Requirements

- (1) The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record which shows a deviation from the allowable sulfur dioxide emission limitation contained in this permit, based upon the sulfur dioxide emission rates calculated in accordance with the formula specified in OAC rule 3745-18-04(F). The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1))

- (2) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or distillate oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1))

- (3) The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month fuel oil usage limitation of 500,000 gallons.

(Authority for term: OAC rules 3745-31-05(D)(1)(a) and 3745-77-07(C)(1))

- (4) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install 14-02713: e)(1)-e)(3). The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

f) Testing Requirements

- (1) Compliance with the emission limitation(s) in a) and b) of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitations:

This emissions unit shall not exceed the following limitation:

0.020 lb of PE/MMBtu of actual heat input.

From emissions units B001-B003 combined shall not exceed 8.55 TPY of PE based on a rolling, 12-month summation.

Applicable compliance method when burning only natural gas:

For the use of natural gas, compliance may be determined by multiplying the maximum natural gas usage rate 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 1.9 lbs



of filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Applicable compliance method when burning fuel oil:

For the use of fuel oil, compliance may be determined by multiplying the maximum fuel oil usage rate of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 2.0 lbs of filterable PE/1000 gallons, and then dividing by the maximum hourly heat input capacity 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 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb of PE/MMBtu limitation specified in b)(1)d. and the fuel oil usage restriction specified in c)(1). (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in d)(2)).

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(D)(1)(a) and 3745-77-07(C)(1))

b. Emission Limitations:

This emissions unit shall not exceed the following limitations:

0.50 lb of SO<sub>2</sub>/MMBtu of actual heat input and

the sulfur content of the distillate oil shall not exceed 0.5 percent sulfur by weight.

From emissions units B001-B003 combined shall not exceed 18.38 TPY of SO<sub>2</sub> based on a rolling, 12-month summation.

Applicable compliance method when burning fuel oil-

Compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by the emission rate calculations collected and recorded in d)(1).

Applicable compliance method when burning only natural gas:

For the use of natural gas, compliance may be determined by multiplying the hourly gas usage rate 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 0.6 lb of SO<sub>2</sub>/MM cu. ft and then dividing by the maximum hourly heat input capacity 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 through 4 and 6.



Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitation specified in b)(1)a. and the fuel oil usage restriction specified in c)(1). (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in d)(2)).

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(D)(1)(a), 3745-18-04, and 3745-77-07(C)(1))

c. Emission Limitations:

This emissions unit shall not exceed the following limitation:

0.15 lb of NO<sub>x</sub>/MMBtu of actual heat input.

From emissions units B001-B003 combined shall not exceed 164.25 TPY of NO<sub>x</sub> based on a rolling, 12-month summation.

Applicable compliance method when burning natural gas or fuel oil:

The emission factor of 0.15 lb of NO<sub>x</sub>/MMBtu of actual heat input is based upon a performance guarantee by the burner manufacturer, COEN Company, Inc. dated July 13, 1992. 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 through 4 and 7.

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitation specified in b)(1)a. and the fuel oil usage restriction specified in c)(1). (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in d)(2)).

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(D)(1)(a) and 3745-77-07(C)(1))

d. Emission Limitations:

This emissions unit shall not exceed the following limitation:

0.20 lb of CO/MMBtu of actual heat input.

From emissions units B001-B003 combined shall not exceed 219.0 TPY of CO based on a rolling, 12-month summation.

Applicable compliance method when burning natural gas or fuel oil:

The emission factor of 0.20 lb of CO/MMBtu of actual heat input is based upon a performance guarantee by the burner manufacturer, COEN Company, Inc. dated July 13, 1992. 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 through 4 and 10.



Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitation specified in b)(1)a. and the fuel oil usage restriction specified in c)(1). (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in d)(2)).

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(D)(1)(a) and 3745-77-07(C)(1))

e. Emission Limitations:

This emissions unit shall not exceed the following limitation:

0.015 lb of VOC/MMBtu of actual heat input.

From emissions units B001-B003 combined shall not exceed 16.43 TPY of VOC based on a rolling, 12-month summation.

Applicable compliance method when burning natural gas or fuel oil:

The emission factor of 0.015 lb of VOC/MMBtu of actual heat input is based upon a performance guarantee by the burner manufacturer, COEN Company, Inc. dated July 13, 1992. 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 through 4 and 25.

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitation specified in b)(1)a. and the fuel oil usage restriction specified in c)(1). (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in d)(2)).

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(D)(1)(a) and 3745-77-07(C)(1))

f. Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity (6-minute average), except for one 6-minute period per hour of not more than 27% opacity.

Applicable Compliance Method-If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1))

g. Compliance with the total combined fuel oil usage limitation in c)(1) shall be determined by the record keeping in d)(2).

(2) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following testing requirements are as stringent as or more stringent than the testing requirements contained in Permit to Install 14-



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

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**Permit Number:** P0100777

**Facility ID:** 1483090334

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02713: f)(1) The testing requirements contained in the above-referenced Permit to Install are subsumed into the testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying testing requirements in the Permit to Install.

g) Miscellaneous Requirements

(1) None.



2. **B002, Boiler No. 2**

**Operations, Property and/or Equipment Description:**

100 MMBTU/Hr natural gas/distillate oil fired boiler .

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 14-02713)	This emissions unit shall not exceed the following limitations:  0.50 lb of sulfur dioxide (SO <sub>2</sub> )/MMBtu of actual heat input; 0.15 lb of nitrogen oxides (NO <sub>x</sub> )/MMBtu of actual heat input; 0.20 lb of carbon monoxide(CO)/MMBtu of actual heat input; and 0.015 lb of volatile organic compounds (VOC)/MMBtu of actual heat input.  The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(D)(1)(a), 3745-17-10(B)(1), 3745-21-08(B) and 40 CFR Part 60 Subpart Dc.
b.	OAC rule 3745-31-05(D)(1)(a) (PTI 14-02713)	See b)(2)b and c)(1).
c.	OAC rule 3745-17-07(A)	The visible emission limitations specified in OAC 3745-17-07(A) are less stringent than the visible emission limitations specified in 40 CFR Part 60 Subpart Dc
d.	OAC rule 3745-17-10(B)(1)	The particulate emissions (PE) from this emissions unit shall not exceed 0.020 lb per MMBtu of actual heat input.
e.	OAC rule 3745-18-06(D)	The sulfur dioxide emission limitation specified in OAC 3745-18-06(D) is less stringent than the sulfur dioxide emission limitation established in accordance with



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		OAC rule 3745-31-05(A)(3).
f.	OAC rule 3745-21-08(B)	See b)(2)a.
g.	40 CFR Part 60 Subpart Dc	Excluding periods of startup, shutdown, or malfunction, visible particulate emissions shall not exceed 20% opacity, as a six-minute average, except for one six-minute period per hour of not more than 27% opacity.

(2) Additional Terms and Conditions

- a. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology (BAT) requirements established in PTI No. 14-02713. The design of the emissions unit and the technology associated with the current operating practices satisfy the BAT requirements.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. On June 24, 2003, the rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP); however, until the U.S. EPA approves the revision to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- b. The total combined emissions from emissions units B001-B003 shall not exceed the following based on a rolling, 12-month summation:

8.55 TPY PE\*

16.43 TPY VOC

219.0 TPY CO

164.25 TPY NOx

18.38 TPY SO2

\*For purposes of Prevention of Significant Deterioration and non-attainment review applicability, all PM10 emissions are assumed to be PE.

c) Operational Restrictions

- (1) The total amount of distillate fuel oil burned in emissions units B001-B003, combined, shall not exceed 500,000 gallons per year based upon a rolling, 12-month summation.

(Authority for term: OAC rules 3745-31-05(D)(1)(a) and 3745-77-07(A)(1))



- (2) When burning fuel oil in this emissions unit, the permittee shall only use distillate oil (fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396-78, "Standard Specification for Fuel Oils") in this emissions unit. The sulfur content of the distillate oil shall not exceed 0.5 percent sulfur by weight.

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1))

- (3) The permittee shall burn only natural gas and/or distillate fuel oil in this emissions unit

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1))

- (4) The quality of the oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in this permit

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1))

d) **Monitoring and/or Recordkeeping Requirements**

- (1) The permittee shall maintain the records specified in either Option 1 or Option 2 below to document the quality of the fuel oil burned in this emission unit.

Option 1:

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

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the Director.

Option 2

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

a. **Alternative 1:**

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). The sulfur dioxide emission rate shall be



calculated in accordance with the formula specified in OAC rule 3745-18-04(F). A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.

b. Alternative 2:

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

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as ASTM methods D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the Director.

(Authority for term: OAC rules 3745-31-05(A)(3), OAC 3745-18-04, and 3745-77-07(C)(1))

(2) The permittee shall collect and record the following information on a monthly basis:

- a. The total amounts of natural gas and fuel oil burned in emissions units B001-B003, combined.
- b. The rolling, 12-month summation of the fuel oil usage totals recorded in d)(2)a.. (i.e., the current month's total added to the previous 11-month total).

(Authority for term: OAC rules 3745-31-05(D)(1)(a) and 3745-77-07(C)(1))

(3) For each day during which the permittee burns a fuel other than natural gas and/or a distillate oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-77-07(C)(1))

(4) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install 14-02713: d)(1)-d)(3). The monitoring and record



keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

e) Reporting Requirements

- (1) The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record which shows a deviation from the allowable sulfur dioxide emission limitation contained in this permit, based upon the sulfur dioxide emission rates calculated in accordance with the formula specified in OAC rule 3745-18-04(F). The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1))

- (2) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or distillate oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1))

- (3) The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month fuel oil usage limitation of 500,000 gallons.

(Authority for term: OAC rules 3745-31-05(D)(1)(a) and 3745-77-07(C)(1))

- (4) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install 14-02713: e)(1)-e)(3). The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

f) Testing Requirements

- (1) Compliance with the emission limitation(s) in a) and b) of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitations:

This emissions unit shall not exceed the following limitation:

0.020 lb of PE/MMBtu of actual heat input.

From emissions units B001-B003 combined shall not exceed 8.55 TPY of PE based on a rolling, 12-month summation.

Applicable compliance method when burning only natural gas:

For the use of natural gas, compliance may be determined by multiplying the maximum natural gas usage rate 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 1.9 lbs



of filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Applicable compliance method when burning fuel oil:

For the use of fuel oil, compliance may be determined by multiplying the maximum fuel oil usage rate of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 2.0 lbs of filterable PE/1000 gallons, and then dividing by the maximum hourly heat input capacity 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 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb PE/MMBtu limitation specified in b)(1)d. and the fuel oil usage restriction specified in c)(1). (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in d)(2)).

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(D)(1)(a) and 3745-77-07(C)(1))

b. Emission Limitations:

This emissions unit shall not exceed the following limitations:

0.50 lb of SO<sub>2</sub>/MMBtu of actual heat input and

the sulfur content of the distillate oil shall not exceed 0.5 percent sulfur by weight.

From emissions units B001-B003 combined shall not exceed 18.38 TPY of SO<sub>2</sub> based on a rolling, 12-month summation.

Applicable compliance method when burning fuel oil:

Compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by the emission rate calculations collected and recorded in d)(1).

Applicable compliance method when burning only natural gas:

For the use of natural gas, compliance may be determined by multiplying the hourly gas usage rate 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 0.6 lb of SO<sub>2</sub>/MM cu. ft and then dividing by the maximum hourly heat input capacity 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 through 4 and 6.



Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitation specified in b)(1)a. and the fuel oil usage restriction specified in c)(1). (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in d)(2)).

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(D)(1)(a), 3745-18-04, and 3745-77-07(C)(1))

c. Emission Limitations:

This emissions unit shall not exceed the following limitation:

0.15 lb of NOx/MMBtu of actual heat input.

From emissions units B001-B003 combined shall not exceed 164.25 TPY of NOx based on a rolling, 12-month summation.

Applicable compliance method when burning natural gas or fuel oil:

The emission factor of 0.15 lb of NOx/MMBtu of actual heat input is based upon a performance guarantee by the burner manufacturer, COEN Company, Inc. dated July 13, 1992. 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 through 4 and 7.

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitation specified in b)(1)a. and the fuel oil usage restriction specified in c)(1). (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in d)(2)).

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(D)(1)(a) and 3745-77-07(C)(1))

d. Emission Limitations:

This emissions unit shall not exceed the following limitation:

0.20 lb of CO/MMBtu of actual heat input.

From emissions units B001-B003 combined shall not exceed 219.0 TPY of CO based on a rolling, 12-month summation.

Applicable compliance method when burning natural gas or fuel oil:

The emission factor of 0.20 lb of CO/MMBtu of actual heat input is based upon a performance guarantee by the burner manufacturer, COEN Company, Inc. dated July 13, 1992. 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 through 4 and 10.



Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitation specified in b)(1)a. and the fuel oil usage restriction specified in c)(1). (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in d)(2)).

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(D)(1)(a) and 3745-77-07(C)(1))

e. Emission Limitations:

This emissions unit shall not exceed the following limitation:

0.015 lb of VOC/MMBtu of actual heat input.

From emissions units B001-B003 combined shall not exceed 16.43 TPY of VOC based on a rolling, 12-month summation.

Applicable compliance method when burning natural gas or fuel oil:

The emission factor of 0.015 lb of VOC/MMBtu of actual heat input is based upon a performance guarantee by the burner manufacturer, COEN Company, Inc. dated July 13, 1992. 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 through 4 and 25.

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitation specified in b)(1)a. and the fuel oil usage restriction specified in c)(1). (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in d)(2)).

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(D)(1)(a) and 3745-77-07(C)(1))

f. Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity (6-minute average), except for one 6-minute period per hour of not more than 27% opacity.

Applicable Compliance Method-If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1))

g. Compliance with the total combined fuel oil usage limitation in c)(1) shall be determined by the record keeping in d)(2).

(2) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following testing requirements are as stringent as or more stringent than the testing requirements contained in Permit to Install 14-



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02713: f)(1). The testing requirements contained in the above referenced Permit to Install are subsumed into the testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying testing requirements in the Permit to Install.

g) Miscellaneous Requirements

(1) None.



3. **B003, Boiler No. 1**

**Operations, Property and/or Equipment Description:**

50 MMBTU/Hr natural gas/distillate oil fired boiler .

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 14-02713)	This emissions unit shall not exceed the following limitations:  0.50 lb of sulfur dioxide (SO <sub>2</sub> )/MMBtu of actual heat input; 0.15 lb of nitrogen oxides (NO <sub>x</sub> )/MMBtu of actual heat input; 0.20 lb of carbon monoxide(CO)/MMBtu of actual heat input; and 0.015 lb of volatile organic compounds (VOC)/MMBtu of actual heat input.  The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(D)(1)(a), 3745-17-10(B)(1), 3745-21-08(B) and 40 CFR Part 60 Subpart Dc.
b.	OAC rule 3745-31-05(D)(1)(a) (PTI 14-02713)	See b)(2)b. and c)(1).
c.	OAC rule 3745-17-07(A)	The visible emission limitations specified in OAC 3745-17-07(A) are less stringent than the visible emission limitations specified in 40 CFR Part 60 Subpart Dc
d.	OAC rule 3745-17-10(B)(1)	The particulate emissions (PE) from this emissions unit shall not exceed 0.020 lb per MMBtu of actual heat input.
e.	OAC rule 3745-18-06(D)	The sulfur dioxide emission limitation specified in OAC 3745-18-06(D) is less stringent than the sulfur dioxide emission limitation established in accordance with



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		OAC rule 3745-31-05(A)(3).
f.	OAC rule 3745-21-08(B)	See b)(2)a.
g.	40 CFR Part 60 Subpart Dc	Excluding periods of startup, shutdown, or malfunction, visible particulate emissions shall not exceed 20% opacity, as a six-minute average, except for one six-minute period per hour of not more than 27% opacity.

(2) Additional Terms and Conditions

- a. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology (BAT) requirements established in PTI No. 14-02713. The design of the emissions unit and the technology associated with the current operating practices satisfy the BAT requirements.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. On June 24, 2003, the rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP); however, until the U.S. EPA approves the revision to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- b. The total combined emissions from emissions units B001-B003 shall not exceed the following based on a rolling, 12-month summation:

8.55 TPY PE;

16.43 TPY VOC;

219.0 TPY CO;

164.25 TPY NO<sub>x</sub>; and

18.38 TPY SO<sub>2</sub>.

For purposes of Prevention of Significant Deterioration and non-attainment review applicability, all PM<sub>10</sub> emissions are assumed to be PE.

c) Operational Restrictions

- (1) The total amount of distillate fuel oil burned in emissions units B001-B003, combined, shall not exceed 500,000 gallons per year based upon a rolling, 12-month summation.

(Authority for term: OAC rules 3745-31-05(D)(1)(a) and 3745-77-07(A)(1))



- (2) When burning fuel oil in this emissions unit, the permittee shall only use distillate oil (fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396-78, "Standard Specification for Fuel Oils") in this emissions unit. The sulfur content of the distillate oil shall not exceed 0.5 percent sulfur by weight.

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1))

- (3) The permittee shall burn only natural gas and/or distillate fuel oil in this emissions unit

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1))

- (4) The quality of the oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in this permit

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1))

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain the records specified in either Option 1 or Option 2 below to document the quality of the fuel oil burned in this emission unit.

Option 1:

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

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the Director..

Option 2

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

a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). The sulfur dioxide emission rate shall be



calculated in accordance with the formula specified in OAC rule 3745-18-04(F). A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.

b. Alternative 2:

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

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as ASTM methods D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the Director.

(Authority for term: OAC rules 3745-31-05(A)(3), OAC 3745-18-04, and 3745-77-07(C)(1))

- (2) The permittee shall collect and record the following information on a monthly basis:
  - a. The total amounts of natural gas and fuel oil burned in emissions units B001-B003, combined.
  - b. The rolling, 12-month summation of the fuel oil usage totals recorded in d)(2)a. (i.e., the current month's total added to the previous 11-month total).

(Authority for term: OAC rules 3745-31-05(D)(1)(a) and 3745-77-07(C)(1))

- (3) For each day during which the permittee burns a fuel other than natural gas and/or a distillate oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-77-07(C)(1))

- (4) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install 14-02713: d)(1)-d)(3). The



monitoring and record keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

e) Reporting Requirements

- (1) The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record which shows a deviation from the allowable sulfur dioxide emission limitation contained in this permit, based upon the sulfur dioxide emission rates calculated in accordance with the formula specified in OAC rule 3745-18-04(F). The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1))

- (2) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or distillate oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1))

- (3) The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month fuel oil usage limitation of 500,000 gallons.

(Authority for term: OAC rules 3745-31-05(D)(1)(a) and 3745-77-07(C)(1))

- (4) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install 14-02713: e)(1)-e)(3). The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

f) Testing Requirements

- (1) Compliance with the emission limitation(s) in a) and b) of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitations:

This emissions unit shall not exceed the following limitation:

0.020 lb of PE/MMBtu of actual heat input.

From emissions units B001-B003 combined shall not exceed 8.55 TPY of PE based on a rolling, 12-month summation.

Applicable compliance method when burning only natural gas:

For the use of natural gas, compliance may be determined by multiplying the maximum natural gas usage rate 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 1.9 lbs



of filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Applicable compliance method when burning fuel oil:

For the use of fuel oil, compliance may be determined by multiplying the maximum fuel oil usage rate of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 2.0 lbs of filterable PE/1000 gallons, and then dividing by the maximum hourly heat input capacity 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 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb PE/MMBtu limitation specified in b)(1)d. and the fuel oil usage restriction specified in c)(1). (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in d)(2)).

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(D)(1)(a) and 3745-77-07(C)(1))

b. Emission Limitations

This emissions unit shall not exceed the following limitation:

0.50 lb of SO<sub>2</sub>/MMBtu of actual heat input; and

The sulfur content of the distillate oil shall not exceed 0.5 percent sulfur by weight.

From emissions units B001-B003 combined shall not exceed 18.38 TPY of SO<sub>2</sub> based on a rolling, 12-month summation.

Applicable compliance method when burning fuel oil:

Compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by the emission rate calculations collected and recorded in d)(1).

Applicable compliance method when burning only natural gas:

For the use of natural gas, compliance may be determined by multiplying the hourly gas usage rate 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 0.6 lb of SO<sub>2</sub>/MM cu. ft and then dividing by the maximum hourly heat input capacity 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 through 4 and 6.

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitation specified in b)(1)a. and the fuel oil usage restriction specified in c)(1). (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in d)(2)).

(Authority for term: OAC rules 3745-31-05(A)D(3), 3745-31-05(D)(1)(a), 3745-18-04, and 3745-77-07(C)(1))

c. Emission Limitations:

This emissions unit shall not exceed the following limitation:

0.15 lb of NOx/MMBtu of actual heat input.

From emissions units B001-B003 combined shall not exceed 164.25 TPY of NOx based on a rolling, 12-month summation.

Applicable compliance method when burning natural gas or fuel oil:

The emission factor of 0.15 lb of NOx/MMBtu of actual heat input is based upon a performance guarantee by the burner manufacturer, COEN Company, Inc. dated July 13, 1992. 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 through 4 and 7.

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitation specified in b)(1)a. and the fuel oil usage restriction specified in c)(1). (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in d)(2)).

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(D)(1)(a) and 3745-77-07(C)(1))

d. Emission Limitations:

This emissions unit shall not exceed the following limitation:

0.20 lb of CO/MMBtu of actual heat input.

From emissions units B001-B003 combined shall not exceed 219.0 TPY of CO based on a rolling, 12-month summation.

Applicable compliance method when burning natural gas or fuel oil-



The emission factor of 0.20 lb of CO/MMBtu of actual heat input is based upon a performance guarantee by the burner manufacturer, COEN Company, Inc. dated July 13, 1992. 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 through 4 and 10.

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitation specified in b)(1)a. and the fuel oil usage restriction specified in c)(1). (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in d)(2)).

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(D)(1)(a) and 3745-77-07(C)(1))

e. Emission Limitations:

This emissions unit shall not exceed the following limitation:

0.015 lb of VOC/MMBtu of actual heat input.

From emissions units B001-B003 combined shall not exceed 16.43 TPY of VOC based on a rolling, 12-month summation.

Applicable compliance method when burning natural gas or fuel oil:

The emission factor of 0.015 lb of VOC/MMBtu of actual heat input is based upon a performance guarantee by the burner manufacturer, COEN Company, Inc. dated July 13, 1992. 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 through 4 and 25.

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitation specified in b)(1)a. and the fuel oil usage restriction specified in c)(1). (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in d)(2)).

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(D)(1)(a) and 3745-77-07(C)(1))

f. Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity (6-minute average), except for one 6-minute period per hour of not more than 27% opacity.

Applicable Compliance Method:

If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1).





4. **Emissions Unit Group - Emergency Generators: P001, P002, P003,**

<b>EU ID</b>	<b>Operations, Property and/or Equipment Description</b>
P001	Distillate oil fired back up generator.
P002	Distillate oil fired back up generator.
P003	Distillate oil fired back up generator.

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 14-02713)	Each of the above emissions units shall not exceed the following limitations:  45.1 lbs per hour of nitrogen oxides (NOx)*;  7.12 lbs per hour of sulfur dioxide(SO2)*;  11.98 lbs per hour of carbon monoxide (CO)*; and  1.27 lbs per hour of volatile organic compounds (VOC)*.  *This emission limitation is based on the emissions unit's potential to emit. Therefore, no record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this emission limitation.  The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(D)(1)(a), 3745-17-07(A), 3745-17-11(B)(5)(b), and 3745-18-06(G).
b.	OAC rule 3745-31-05(D)(1)(a) (PTI 14-02713)	See b)(2)a. and c)(1).



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
c.	OAC rule 3745-17-11(A)	Visible particulate emissions shall not exceed twenty percent opacity, as a six-minute average, except as specified by rule.
d.	OAC rule 3745-17-11(B)(5)(b)	0.062 lb of PE per MMBtu of actual heat input.
e.	OAC rule 3745-18-06(G)	0.5 lb of SO <sub>2</sub> /MMBtu of actual heat input.
f.	OAC rule 3745-21-08(B)	See b)(2)b.

(2) Additional Terms and Conditions

- a. The total combined emissions from emissions units P001-P003 shall not exceed the following based on a rolling, 12-month summation:

5.18 TPY PE/PM<sub>10</sub>/PM<sub>2.5</sub>;

1.33 TPY VOC;

12.6 TPY CO;

47.4 TPY NO<sub>x</sub>; and

7.5 TPY SO<sub>2</sub>.

For purposes of Prevention of Significant Deterioration and non-attainment review applicability, all PM<sub>10</sub> emissions are assumed to be PE.

- b. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology (BAT) requirements established in PTI No. 14-02713. The design of the emissions unit and the technology associated with the current operating practices satisfy the BAT requirements.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. On June 24, 2003, the rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP); however, until the U.S. EPA approves the revision to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio

c) Operational Restrictions

- (1) The total hours of operation for emissions units P001-P003, combined, shall not exceed 2,100 hours per year based upon a rolling, 12-month summation.

(Authority for term: OAC rules 3745-31-05(D)(1)(a) and 3745-77-07(A)(1))



- (2) The quality of diesel fuel burned in this emissions unit shall have a combination of heat and sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.50 lb of SO<sub>2</sub>/MMBtu of actual heat input.

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1))

- (3) The permittee shall burn only diesel fuel in this emissions unit.

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1))

d) .Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain the records specified in either Option 1 or Option 2 below to document the quality of the diesel fuel burned in this emission unit.

Option 1:

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

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the Director..

Option 2

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

a. Alternative 1:

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



b. Alternative 2:

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

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as ASTM methods D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the Director.

(Authority for term: OAC rules 3745-31-05(A)(3), OAC 3745-18-04, and 3745-77-07(C)(1))

(2) The permittee shall collect and record the following information on a monthly basis:

- a. The total hours of operation for emissions units P001-P003, combined.
- b. The rolling, 12-month summation of the hours of operation recorded pursuant to d)(2)a. (i.e., the current month's total added to the previous 11-month total).

(Authority for term: OAC rules 3745-31-05(D)(1)(a) and 3745-77-07(C)(1))

(3) For each day during which the permittee burns a fuel other than diesel fuel, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1))

(4) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install 14-02713: d)(1)-d)(3). The monitoring and record keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

e) Reporting Requirements



- (1) The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record that shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from d)(1). The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the deviation occurs.

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1))

- (2) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other diesel was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1))

- (3) The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, twelve-month operating hours limitation listed in c)(1).

(Authority for term: OAC rules 3745-31-05(D)(1)(a) and 3745-77-07(C)(1))

- (4) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install 14-02713: e)(1)-e)(3). The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

f) .Testing Requirements

- (1) Compliance with the emission limitation(s) in a) and b) of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitations:

Each of the above emissions units shall not exceed the following limitations:

7.12 lbs of SO<sub>2</sub>/hour; and

0.5 lb of SO<sub>2</sub>/MMBTU of actual heat input.

The total combined emissions from emissions units P001-P003 shall not exceed 7.5 TPY of SO<sub>2</sub> based on a rolling, 12-month summation.

Applicable Compliance Method:

Compliance with the lbs of SO<sub>2</sub>/hr and lb/MMBTU emission limitation may be demonstrated by multiplying the emission factor of 1.01(S) lbs of SO<sub>2</sub>/MMBTu, where S is the sulfur content of the diesel fuel oil (AP-42, Fifth Edition, Section 3.4 Large Stationary Diesel Engines, Table 3.4-1, updated 10/96) by the maximum heat input of 14.1 MMBtu/hr. The sulfur content of the diesel fuel oil shall be determined by the record keeping in required d)(1).



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

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lbs/hr limitation specified in b)(1)a. and the hours of operation restriction specified in c)(1). (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in d)(1)).

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(D)(1)(a) and 3745-77-07(C)(1))

b. Emission Limitations:

Each of the above emissions units shall not exceed the following limitation:

45.1 lbs of NOx/hour; and

The total combined emissions from emissions units P001-P003 shall not exceed 47.4 TPY of NOx based on a rolling, 12-month summation.

Applicable Compliance Method:

Compliance with the lbs of NOx/hr emission limitation may be demonstrated by multiplying the emission factor of 3.2 lbs of NOx/MMBtu (AP-42, Fifth Edition, Section 3.4 Large Stationary Diesel Engines, Table 3.4-1, updated 10/96) by the maximum heat input of 14.1 MMBtu/hr.

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

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lbs/hr limitation specified in b)(1)a. and the hours of operation restriction specified in c)(1). (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in d)(1)).

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(D)(1)(a) and 3745-77-07(C)(1))

c. Emission Limitations:

Each of the above emissions units shall not exceed the following limitation:

11.98 lbs of CO/hour.

The total combined emissions from emissions units P001-P003 shall not exceed 12.6 TPY of CO based on a rolling, 12-month summation.



Applicable Compliance Method:

Compliance with the lbs of CO/hr emission limitation may be demonstrated by multiplying the emission factor of 0.85 lb of CO/MMBtu (AP-42, Fifth Edition, Section 3.4 Large Stationary Diesel Engines, Table 3.4-1, updated 10/96) by the maximum heat input of 14.1 MMBtu/hr.

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

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lbs/hr limitation specified in b)(1)a. and the hours of operation restriction specified in c)(1). (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in d)(1)).

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(D)(1)(a) and 3745-77-07(C)(1))

d. Emission Limitations:

Each of the above emissions units shall not exceed the following limitation:

1.27 lbs of VOC/hour.

The total combined emissions from emissions units P001-P003 shall not exceed 1.33 TPY of VOC.

Applicable Compliance Method:

Compliance with the lbs of VOC/hr emission limitation may be demonstrated by multiplying the emission factor of 0.09 lb of VOC/MMBtu (AP-42, Fifth Edition, Section 3.4 Large Stationary Diesel Engines, Table 3.4-1, updated 10/96) by the maximum heat input of 14.1 MMBtu/hr.

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

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lbs/hr limitation specified in b)(1)a. and the hours of operation restriction specified in c)(1). (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in d)(1)).

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(D)(1)(a) and 3745-77-07(C)(1))

e. Emission Limitations:



Each of the above emissions units shall not exceed the following limitation 0.062 lb per million Btu of actual heat input of particulate emissions.

The total combined emissions from emissions units P001-P003 shall not exceed 5.18 TPY of PE/PM10.

Applicable Compliance Method:

Compliance may be based upon an emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-2 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitations specified in b)(1)d. and specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-2 (10/96) and those specified in the hours of operation restriction specified in c)(1). (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the fuel usage information collected and recorded in d)(1)).

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(D)(1)(a) and 3745-77-07(C)(1))

f. Emission Limitation:

Visible emissions shall not exceed twenty percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:

If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1))

g. Compliance with the hours of operation limitation specified in c)(1) shall be demonstrated by the hours of operation information collected and recorded in d)(2).

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1))

- (2) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following testing requirements are as stringent as or more stringent than the testing requirements contained in Permit to Install 14-02713: f)(1) The testing requirements contained in the above-referenced Permit to Install are subsumed into the testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying testing requirements in the Permit to Install.



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Draft Title V Permit**

**Permit Number:** P0100777

**Facility ID:** 1483090334

**Effective Date:** To be entered upon final issuance

g) Miscellaneous Requirements

(1) None.