



Environmental Protection Agency

John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Nally, Director

2/17/2011

Certified Mail

Carl Wintzer  
G. A. Wintzer & Company  
P. O. Box 406  
5 N. Blackhoof Street  
Wapakoneta, OH 45895-0406

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL  
Facility ID: 0306020008  
Permit Number: P0105938  
Permit Type: Administrative Modification  
County: Auglaize

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install (PTI) which will allow you to install or modify the described emissions unit(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, we urge you to read it carefully. Please complete a survey at [www.epa.ohio.gov/dapc/permitsurvey.aspx](http://www.epa.ohio.gov/dapc/permitsurvey.aspx) and give us feedback on your permitting experience. We value your opinion.

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

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

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. If you have any questions regarding this permit, please contact the Ohio EPA DAPC, Northwest District Office. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, [www.epa.ohio.gov/dapc](http://www.epa.ohio.gov/dapc) by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

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

Cc: U.S. EPA  
Ohio EPA-NWDO; Indiana





**FINAL**

**Division of Air Pollution Control  
Permit-to-Install  
for  
G. A. Wintzer & Company**

Facility ID: 0306020008  
Permit Number: P0105938  
Permit Type: Administrative Modification  
Issued: 2/17/2011  
Effective: 2/17/2011





Division of Air Pollution Control
Permit-to-Install
for
G. A. Wintzer & Company

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## Authorization

Facility ID: 0306020008  
Facility Description: Animal and Marine Fats and Oil  
Application Number(s): M0000710  
Permit Number: P0105938  
Permit Description: Administrative modification of PTI 03-17366 issued June 12, 2008, to adjust PM-10 BAT limit and correct opacity monitoring provisions to require a COMS (and update for SB 265).  
Permit Type: Administrative Modification  
Permit Fee: \$200.00  
Issue Date: 2/17/2011  
Effective Date: 2/17/2011

This document constitutes issuance to:

G. A. Wintzer & Company  
12279 S. Dixie Highway  
Wapakoneta, OH 45895

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

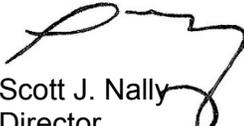
Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Northwest District Office  
347 North Dunbridge Road  
Bowling Green, OH 43402  
(419)352-8461

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

  
Scott J. Nally  
Director



## Authorization (continued)

Permit Number: P0105938  
Permit Description: Administrative modification of PTI 03-17366 issued June 12, 2008, to adjust PM-10 BAT limit and correct opacity monitoring provisions to require a COMS (and update for SB 265).

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

<b>Emissions Unit ID:</b>	<b>B003</b>
Company Equipment ID:	Boiler 3
Superseded Permit Number:	03-17366
General Permit Category and Type:	Not Applicable

## **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.2.a), Severability Clause
  - (2) Standard Term and Condition A.3.c) through A. 3.e) General Requirements
  - (3) Standard Term and Condition A.6.c) and A. 6.d), Compliance Requirements
  - (4) Standard Term and Condition A.9., Reporting Requirements
  - (5) Standard Term and Condition A.10., Applicability
  - (6) Standard Term and Condition A.11.b) through A.11.e), Construction of New Source(s) and Authorization to Install
  - (7) Standard Term and Condition A.14., Public Disclosure
  - (8) Standard Term and Condition A.15., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations
  - (9) Standard Term and Condition A.16., Fees
  - (10) Standard Term and Condition A.17., Permit Transfers

**2. Severability Clause**

- a) 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.
- b) All terms and conditions designated in parts B and C of this permit are federally enforceable as a practical matter, if they 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 and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. Terms and conditions in parts B and C of this permit shall not be federally enforceable and shall be enforceable under State law only, only if specifically identified in this permit as such.

**3. 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 re-issuance, or modification.

- 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, revoked, or revoked and reissued, for cause. 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 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.

#### 4. 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, 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.
- 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, 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.
- c) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
  - (1) Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the Ohio EPA DAPC, Northwest District Office.
  - (2) Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations,

excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the Ohio EPA DAPC, Northwest District Office. The written 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. See A.15. below if no deviations occurred during the quarter.

- (3) Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted (i.e., postmarked) to the Ohio EPA DAPC, Northwest District Office every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
  - (4) This permit is for an emissions unit located at a Title V facility. 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 are true, accurate, and complete.
- d) The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

## 5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the Ohio EPA DAPC, Northwest District Office in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to 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 emission unit(s) that is (are) served by such control system(s).

## 6. Compliance Requirements

- a) The emissions unit(s) identified in this Permit shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.
- b) Any document (including reports) required to be submitted and required by a federally applicable requirement in this 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.
- c) 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 ORC section 3704.08.
  - (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.
- d) The permittee shall submit progress reports to the Ohio EPA DAPC, Northwest District Office 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.

## **7. Best Available Technology**

As specified in OAC Rule 3745-31-05, new sources that must employ Best Available Technology (BAT) shall comply with the Applicable Emission Limitations/Control Measures identified as BAT for each subject emissions unit.

## **8. 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.

## **9. Reporting Requirements**

The permittee shall submit required reports in the following manner:

- a) Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the Ohio EPA DAPC, Northwest District Office.
- b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Ohio EPA DAPC, Northwest District Office. 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.)

#### 10. Applicability

This Permit-to-Install is applicable only to the emissions unit(s) identified in the Permit-to-Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

#### 11. Construction of New Sources(s) and Authorization to Install

- a) This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.
- b) If applicable, authorization to install any new emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.
- c) The permittee may notify Ohio EPA of any emissions unit that is permanently shut down (i.e., the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31) by submitting a certification from the authorized 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 authorized official that the emissions unit was permanently shut down. At a minimum, notification of permanent shut down shall be made or confirmed by marking the affected emissions unit(s) as "permanently shut down" in Ohio EPA's "Air Services" along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).
- d) The provisions of this permit shall cease to be enforceable for each affected emissions unit after the date on which an emissions unit is permanently shut down (i.e., emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31). All

records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law. All reports required by this permit must be submitted for any period an affected emissions unit operated prior to permanent shut down. At a minimum, the permit requirements must be evaluated as part of the reporting requirements identified in this permit covering the last period the emissions unit operated.

No emissions unit certified by the authorized official as being permanently shut down may resume operation without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

- e) The permittee shall comply with any residual requirements related to this permit, such as the requirement to submit a deviation report, air fee emission report, or other any reporting required by this permit for the period the operating provisions of this permit were enforceable, or as required by regulation or law. All reports shall be submitted in a form and manner prescribed by the Director. All records relating to this permit must be maintained in accordance with law.

## 12. Permit-To-Operate Application

The permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77. The permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

## 13. Construction Compliance Certification

The applicant shall identify the following dates in the online facility profile for each new emissions unit identified in this permit.

- a) Completion of initial installation date shall be entered upon completion of construction and prior to start-up.
- b) Commence operation after installation or latest modification date shall be entered within 90 days after commencing operation of the applicable emissions unit.

## 14. Public Disclosure

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

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

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 quarterly (i.e., postmarked), by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

**16. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable permit-to-install fees within 30 days after the issuance of any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

**17. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The new owner must update and submit the ownership information via the "Owner/Contact Change" functionality in Air Services once the transfer is legally completed. The change must be submitted through Air Services within thirty days of the ownership transfer date.

**18. Risk Management Plans**

If the permittee is required to 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"), the permittee shall comply with the requirement to register such a plan.

**19. 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.

## **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.

## **C. Emissions Unit Terms and Conditions**



1. **B003, Boiler 3**

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

Boiler No. 3: 87.5 mmBtu/hr boiler - No. 2 fuel oil, No. 6 fuel oil, natural gas, biofuel (organic oils and greases).

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) See b)(2)j.	<p><u>Short-term emission limits - natural gas:</u> 0.084 lb carbon monoxide (CO) /mmBtu of heat input;</p> <p>0.0076 lb particulate matter 10 microns or less (PM<sub>10</sub>) /mmBtu of heat input [See b)(2)d.]</p> <p><u>Short-term emission limits - oils:</u> 0.04 lb CO /mmBtu of heat input;</p> <p>0.56 lb sulfur dioxide (SO<sub>2</sub>) per mmBtu of heat input [See b)(2)g];</p> <p>0.017 lb PM<sub>10</sub> /mmBtu of heat input, when firing only No. 2 fuel oil</p> <p>0.21 lb PM<sub>10</sub> /mmBtu of heat input, when firing other oils / any combination of oils</p> <p><u>Long-term emission limits - natural gas and/or oils:</u> 80.5 tons PM<sub>10</sub> /year;</p> <p>32.2 tons CO /year</p> <p>See b)(2)e.</p>

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
b.	OAC rule 3745-31-05(A)(3), as effective 11/30/01 See b)(2)k.	0.01 lb organic compounds (OC) /mmBtu of heat input;  3.83 tons OC /year
c.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/01/06	See b)(2)l.
d.	OAC rule 3745-31-05(D)	246 tons nitrogen oxides (NO <sub>x</sub> ) per rolling 12-month period  246 tons SO <sub>2</sub> per rolling 12-month period  See b)(2)a.
e.	OAC rule 3745-110-03(B)	0.10 lb NO <sub>x</sub> /mmBtu of heat input - natural gas;  0.23 lb NO <sub>x</sub> /mmBtu of heat input - oils / biofuel
f.	OAC rule 3745-17-07(A)(1)	See b)(2)b.
g.	OAC rule 3745-18-06(D)	See b)(2)c.
h.	OAC rule 3745-17-10(B)(1)	0.020 lb PE /mmBtu of heat input (when firing only No. 2 fuel oil)
i.	OAC rule 3745-17-10(C)(2)	0.31 lb PE /mmBtu of heat input [when firing oils /biofuel, excluding as in b)(1)h]
j.	OAC rule 3745-21-07(B)	See b)(2)e.
k.	OAC rule 3745-21-08(B)	See b)(2)e.
l.	40 CFR Part 60 Subpart Dc	Opacity restrictions [See b)(2)b.]  Oil content restrictions [See c)(2).]

(2) Additional Terms and Conditions

- a. Annual emissions shall not exceed the following, based upon a rolling, 12-month summation of the monthly emissions (for emissions units B001, B002 and B003, combined):
- i. 246.0 tons of SO<sub>2</sub>/ year; and
  - ii. 246.0 tons of NO<sub>x</sub> /year.

The emission limitations are based on fuel usage restrictions [see c)(3)] for the purpose of establishing federally enforceable limitations for "Prevention of Significant Deterioration" (PSD) Potential to Emit (PTE) of under the Major Source threshold.

- b. The applicability of OAC rule 3745-17-07(A) and 40 CFR 60.43c (c) for this emissions unit overlap, and result in opacity restrictions as follows:
- i. when firing natural gas: visible emissions not more than 20 percent opacity (6-minute average), except for one 6-minute period in any sixty minutes of not more than 60 percent opacity.
  - ii. when firing fuel oils / biofuels': visible emissions not more than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. This requirement shall apply at all times, including periods of startup or shutdown lasting no longer than three hours, and malfunction periods which conform with OAC 3745-17-07(A)(3)(c).
- c. The SO<sub>2</sub> emission limitation specified by this rule is less stringent than the SO<sub>2</sub> emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- d. The emission limitation specified by OAC rule 3745-17-10(C)(2) is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). This determination is based on all emissions of particulate matter being PM<sub>10</sub> and the established PM<sub>10</sub> limitation being more restrictive than particulate emissions limitation established by OAC rule 3745-17-10(C)(2). Particulate emissions (PE) measured using Method 5 of 40 CFR Part 60, Appendix A would be equivalent to the filterable particulates measured using Method 201/201A of 40 CFR, Part 51, Appendix M. A PM<sub>10</sub> limitation is more stringent due to the inclusion of condensable particulate matter measured by Method 202 of 40 CFR, Part 51, Appendix M.
- e. The requirements of OAC rule 3745-31-05(A)(3)(a) also include compliance with the requirements of OAC rules 3745-31-05(D), 3745-110-03, and 40 CFR 60 Subpart Dc.
- f. The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) and 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 requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

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 February 18, 2008 Ohio EPA rescinded existing rule 3745-21-07 of the Ohio Administrative Code (OAC) and adopted new rule 3745-21-07. The new OAC rule 3745-21-07 does not establish any requirements for this emissions unit. However, that rule revision and new rule have not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08 and approves the new OAC rule 3745-21-07, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- g. The permittee shall submit a written site-specific testing and monitoring plan to address the combustion of residual oils and mixtures of residual oils in emissions units B001, B002, and B003. The plan shall include fuel sampling procedures, testing, analyses, etc. for purposes of obtaining sulfur and heat content information to used to demonstrate compliance with the requirements: for emissions unit B003, the sulfur content of any oil (residual oils, a mixture of #2 fuel oil and residual oils, or a mixture of residual oils) shall not exceed 0.5 weight percent and 0.56 lb SO<sub>2</sub> /mmBtu heat input [See c)(2) and c)(3)d].

The site-specific testing and monitoring plan must be approved by the Ohio EPA prior to operation of emissions units B001, B002, and B003 under the provisions of this permit.

- h. The permittee shall maintain a written quality assurance/quality control plan for the continuous opacity monitoring system, designed to ensure continuous valid and representative readings of opacity and compliance with 40 CFR Part 60, Appendix B, Performance Specification 1. The plan shall include, at a minimum, procedures for conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step by step procedures for ensuring accurate operation of the continuous opacity monitoring system on a continuous basis. The quality assurance /quality control plan and a logbook dedicated to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.  
[40 CFR 60.13 and 40 CFR Part 60, Appendix B]
- i. The COMS consists of all the equipment used to acquire data and record opacity.  
[40 CFR 60.2 and/or 40 CFR 63.2 and Appendix B to 40 CFR Part 60]
- j. In accordance with ORC 3704.03(T), this air contaminant source has the potential to emit, taking into account air pollution controls installed on the source, ten or more tons per year of NO<sub>x</sub>, SO<sub>2</sub>, and PM<sub>10</sub> and as such shall meet the Best Available Technology (BAT) requirements of OAC rule 3745-31-05(A)(3) in effect as of January 1, 2006.
- k. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B 265 changes), such that BAT is no longer required by state regulations for NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of 3745-31-05, then these emission limits/controls measures no longer apply.

- I. This rule (paragraph) applies once U.S. EPA approves the December 1, 2006 version of OAC 3745-31-05 as part of the State Implementation Plan.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to organic compounds (includes volatile organic compounds) emissions from this air contaminant source since the uncontrolled potential to emit for emissions of organic compounds is less than 10 tons per year.

c) Operational Restrictions

- (1) The permittee shall only burn natural gas, residual oils, a mixture of #2 fuel oil and residual oils, or a mixture of residual oils in this emissions unit:

Residual oils combusted in this emissions unit shall only be crude oil, fuel oil that does not comply with the specifications under the definition of "distillate oil," and all fuel oil numbers four, five, or six, as defined by ASTM D396-05, "Standard Specification for Fuel Oils."

It should be noted that some of the residual oils used will involve various organic oils and greases produced on site from the rendering process that meet the standards for yellow grease as defined in the Fats and Proteins Research Foundation, Inc. publication #306, "Animal Fats and Recycled Cooking Oils - Alternatives as Burner Fuels" from March 2001.

- (2) The sulfur content of any oil (residual oils, a mixture of #2 fuel oil and residual oils, or a mixture of residual oils) combusted in this emissions unit shall not exceed 0.5 weight percent.
- (3) The maximum rolling, 12-month quantity of fuel burned in emissions units B001, B002, and B003, combined, shall be limited by the following equation. The criteria of the limiting equation must be met for both NO<sub>x</sub> and SO<sub>2</sub> (meaning the calculated results for NO<sub>x</sub> must not exceed 246 tons and the results for SO<sub>2</sub> must not exceed 246 tons)

$$\sum_{M=1}^{12} \sum_n [ \{ (U_m)(C_m) + (U_n)(C_n) \} (1 \text{ ton} / 2000 \text{ lbs}) ] \leq 246$$

where:

M = the increment of the rolling, 12-month period;

m = the increment of the heat input during the period for emissions units B001 & B002;

n = the increment of the heat input during the period for emissions unit B003;

U<sub>m</sub> = total heat input for B001 & B002, in mmBtu, for each individual fuel type: natural gas, propane, #2 fuel oil, residual oils, a mixture of #2 fuel oil and residual oils, a mixture of residual oils;

U<sub>n</sub> = total heat input for B003, in mmBtu, for each individual fuel type: natural gas, residual oils, a mixture of #2 fuel oil and residual oils, a mixture of residual oils;

C<sub>m</sub> = emission factor for individual boiler fuels for B001 & B002;

C<sub>n</sub> = emission factor for individual boiler fuels for B003;

For emissions units B001 and B002, Cm equals the following:

- a. 0.37 lb NO<sub>x</sub>/mmBtu (all oils)  
0.10 lb NO<sub>x</sub>/mmBtu of natural gas/propane
- b. 1.60 lb SO<sub>2</sub>/mmBtu (all oils)  
0.001 lb SO<sub>2</sub>/mmBtu of natural gas/propane

For emission unit B003, Cn equals the following:

- c. 0.22 lb NO<sub>x</sub>/mmBtu (all oils)  
0.05 lb NO<sub>x</sub>/mmBtu of natural gas
- d. 0.56 lb SO<sub>2</sub>/mmBtu (all oils)  
0.001 lb SO<sub>2</sub>/mmBtu of natural gas

Emission factors other than those indicated above may be used with prior approval from the Ohio EPA, Northwest District Office.

d) Monitoring and/or Recordkeeping Requirements

- (1) Prior to the installation of the COMS, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 1. The Ohio EPA, Central Office shall approve the proposed sampling site and certify that the COMS meets the requirements of Performance Specification 1. Once received, the letter /document of certification shall be maintained on-site and shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

Each COMS consists of all the equipment used to acquire and record data in units of all applicable standard(s), and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data processing hardware and software. [40 CFR 60.13 and 40 CFR Part 60, Appendix B]

- (2) Within 60 days of the effective date of this permit or modification to the system, the permittee shall install, operate, and maintain a COMS to continuously monitor and record the opacity of the particulate emissions from this emissions unit. The continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.

The permittee shall maintain records of data obtained by the continuous opacity monitoring system including, but not limited to:

- a. percent opacity on an instantaneous (one-minute) and 6-minute block average basis;
- b. results of daily zero/span calibration checks and the magnitude of manual calibration adjustments;
- c. hours of operation of the emissions unit, continuous opacity monitoring system, and control equipment;

- d. the date, time, and hours of operation of the emissions unit without the control equipment and/or the continuous opacity monitoring system (such as during natural gas firing);
- e. the date, time, and hours of operation of the emissions unit during any malfunction of the control equipment and/or the continuous opacity monitoring system; as well as,
- f. the reason (if known) and the corrective actions taken (if any) for each such event in (d) and (e).

[40 CFR 60.13 and 40 CFR Part 60, Appendix B]

- (3) For each day during which the permittee burns a fuel other than natural gas, residual oils, a mixture of #2 fuel oil and residual oils, or a mixture of residual oils in this emissions unit the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- (4) The permittee shall comply with all requirements of the written site-specific testing and monitoring plan [see b)(2)g] as approved by the Ohio EPA for burning residual oils, a mixture of #2 fuel oil and residual oils, or a mixture of residual oils.
- (5) The permittee shall maintain monthly records of the following information for emissions units B001, B002, and B003:

- a. the heat input for each individual fuel burned in emissions units B001 and B002 combined, in mmBtu;
- b. the heat input of each individual fuel burned in emissions unit B003, in mmBtu;
- c. the total NO<sub>x</sub> emissions from each fuel burned in emissions units B001 & B002, calculated as follows:

$$E_N = [(U_n)(C_n)(1\text{ton}/2000 \text{ lbs})]$$

$E_N$  = NO<sub>x</sub> emissions from an individual fuel burned, in tons

$U_n$  = total heat input (mmBtu) of the individual fuel - natural gas, No. 2 fuel oil, No. 6 fuel oil, biofuel

$C_n$  = emission factor for the individual fuel in lbs NO<sub>x</sub> /mmBtu [see c)(3)a & b]

- d. The total NO<sub>x</sub> emission rate of all fuels burned in emissions units B001 and B002, in tons/month, calculated as follows:

$$EM_N = E_1 + E_2 + E_3 + \dots + E_n$$

where:

$EM_N$  = Monthly NO<sub>x</sub> emissions, in tons/month; and,

$E_n$  = NO<sub>x</sub> emissions from each individual fuel, in tons [i.e. d)(5)c].

- e. the total NO<sub>x</sub> emissions from each fuel burned in emissions unit B003, calculated as follows:

$$E_N = [(U_n)(C_n)(1\text{ton}/2000 \text{ lbs})]$$

$E_N$  = NO<sub>x</sub> emissions from an individual fuel, in tons

$U_n$  = total heat input for B003, in mmBtu, for each individual fuel type: natural gas, residual oils, a mixture of #2 fuel oil and residual oils, a mixture of residual oils;

$C_n$  = emission factor for the individual fuel in lbs NO<sub>x</sub> /mmBtu [see c)(3)c & d]

- f. The total NO<sub>x</sub> emission rate of all fuels burned in emissions unit B003, in tons/month, calculated as follows:

$$EM_N = E_1 + E_2 + E_3 + \dots + E_n$$

where:

$EM_N$  = Monthly NO<sub>x</sub> emissions, in tons/month; and,

$E_n$  = NO<sub>x</sub> emissions from each individual fuel burned [i.e. d)(5)e].

- g. The total NO<sub>x</sub> emission rate of all fuels burned in emissions units B001, B002, and B003, combined, in tons/month, calculated as:

$$ET_N = [\text{the sum of } EM_N \text{ from both d)(5)d and d)(5)f]$$

- h. The rolling, 12-month NO<sub>x</sub> emission rate of all fuels burned in emissions units B001, B002, and B003, combined, calculated as follows:

$$ET-12_N = ET_1 + ET_2 + ET_3 + \dots + ET_{12}$$

where:

$ET-12_N$  = Annual NO<sub>x</sub> emissions (tons) as summed from the previous 12 months of monthly NO<sub>x</sub> emissions;

$ET$  = Monthly NO<sub>x</sub> emissions in tons/month [i.e. d)(5)g for each month]

- i. the total SO<sub>2</sub> emissions from each fuel burned in emissions units B001 & B002, calculated as follows:

$$E_S = [(U_n)(C_n)(1\text{ton}/2000 \text{ lbs})]$$

$E_S$  = NO<sub>x</sub> emissions from an individual fuel burned, in tons

$U_n$  = total heat input (mmBtu) of the individual fuel - natural gas, No. 2 fuel oil, No. 6 fuel oil, biofuel

$C_n$  = emission factor for the individual fuel in lbs SO<sub>2</sub> /mmBtu [see c)(3)a & b]

- j. The total SO<sub>2</sub> emission rate of all fuels burned in emissions units B001 and B002, in tons/month, calculated as follows:

$$EM_S = E_1 + E_2 + E_3 + \dots + E_n$$

where:

EM<sub>S</sub> = Monthly SO<sub>2</sub> emissions, in tons/month; and,

E<sub>n</sub> = SO<sub>2</sub> emissions from each individual fuel, in tons [i.e. d)(5)i].

- k. the total SO<sub>2</sub> emissions from each fuel burned in emissions unit B003, calculated as follows:

$$E_S = [(U_n)(C_n)(1\text{ton}/2000 \text{ lbs})]$$

E<sub>N</sub> = SO<sub>2</sub> emissions from an individual fuel, in tons

U<sub>n</sub> = total heat input for B003, in mmBtu, for each individual fuel type: natural gas, residual oils, a mixture of #2 fuel oil and residual oils, a mixture of residual oils;

C<sub>n</sub> = emission factor for the individual fuel in lbs SO<sub>2</sub> /mmBtu [see c)(3)c & d]

- l. The total SO<sub>2</sub> emission rate of all fuels burned in emissions unit B003, in tons/month, calculated as follows:

$$EM_S = E_1 + E_2 + E_3 + \dots + E_n$$

where:

EM<sub>S</sub> = Monthly SO<sub>2</sub> emissions, in tons/month; and,

E<sub>n</sub> = SO<sub>2</sub> emissions from each individual fuel burned [i.e. d)(5)k].

- m. The total SO<sub>2</sub> emission rate of all fuels burned in emissions units B001, B002, and B003, combined, in tons/month, calculated as:

$$ET_S = [\text{the sum of } EM_S \text{ from both d)(5)j and d)(5)l}]$$

- n. The rolling, 12-month SO<sub>2</sub> emission rate of all fuels burned in emissions units B001, B002, and B003, combined, calculated as follows:

$$ET-12_S = ET_1 + ET_2 + ET_3 + \dots + ET_{12}$$

where:

ET-12<sub>S</sub> = Annual SO<sub>2</sub> emissions (tons) as summed from the previous 12 months of monthly SO<sub>2</sub> emissions;

ET = Monthly SO<sub>2</sub> emissions in tons/month [i.e. d)(5)m for each month]

## e) Reporting Requirements

- (1) The permittee shall comply with the following quarterly reporting requirements for the emissions unit and its continuous opacity monitoring system:
  - a. Pursuant to the monitoring, record keeping, and reporting requirements for COMS contained in 40 CFR Parts 60.7 and 60.13(h) and the requirements established in this permit, the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency, documenting all instances of opacity values in excess of any limitation specified in this permit, 40 CFR Part 60, OAC rule 3745-17-07, and any other applicable rules or regulations. The report shall document the date, commencement and completion times, duration, and magnitude (percent opacity) of each 6-minute block average exceeding the applicable opacity limitation(s), as well as, the reason (if known) and the corrective actions taken (if any) for each exceedance.
  - b. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall include the following:
    - i. the facility name and address;
    - ii. the manufacturer and model number of the continuous opacity monitor;
    - iii. a description of any change in the equipment that comprises the COMS, including any change to the hardware, changes to the software that may affect COMS readings, and/or changes in the location of the COMS sample probe;
    - iv. the excess emissions report (EER)\*, i.e., a summary of any exceedances during the calendar quarter, as specified above;
    - v. the total operating time (hours) of the emissions unit;
    - vi. the total operating time of the continuous opacity monitoring system while the emissions unit was in operation;
    - vii. the date, time, and duration of any/each malfunction\*\* of the continuous opacity monitoring system, emissions unit, and/or control equipment;
    - viii. the date, time, and duration of any downtime\*\* of the continuous opacity monitoring system and/or control equipment while the emissions unit was in operation; and
    - ix. the reason (if known) and the corrective actions taken (if any) for each event in (b)(vii) and (viii).

Each report shall address the operations conducted and data obtained during the previous calendar quarter. The reports shall be submitted electronically through Ohio EPA Air Services.

\* where no exceedance of the opacity limit has occurred or the continuous monitoring system(s) has/have not been inoperative, repaired, or adjusted during the calendar quarter, such information shall be documented in the quarterly EER report

\*\* each downtime and malfunction event shall be reported regardless if there is an exceedance of the opacity limit  
[40 CFR 60.7]

- (2) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas, a mixture of #2 fuel oil and residual oils, or a mixture of residual oils was combusted in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs. The reports shall be submitted electronically through Ohio EPA Air Services.
- (3) The permittee shall submit deviation (excursion) reports that identify all exceedances of the following:
  - a. the rolling, 12-month SO<sub>2</sub> limitation of 246.0 tons; and
  - b. the rolling, 12-month NO<sub>x</sub> limitation of 246.0 tons.
  - c. the fuel usage restrictions, based on the calculations specified in c)(3), for summing the NO<sub>x</sub> and SO<sub>2</sub> rolling, 12-month emissions;
  - d. the 0.5%, by weight, sulfur content restriction; and
  - e. the 0.56 lb SO<sub>2</sub> per mmBtu heat input emission limitation.

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

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

- (4) Pursuant to the New Source Performance Standards (NSPS), the permittee is hereby advised of the requirements to report the following at the appropriate times:
  - a. construction date (no later than 30 days after such date);
  - b. actual start-up date (within 15 days after such date); and
  - c. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio EPA, Northwest District Office  
347 North Dunbridge Road  
Bowling Green, OH 43402

The notification of 40 CFR 60.48c(a)(1) including the design heat input capacity and identification of fuels to be combusted was fulfilled by the Permit to Install application received on September 26, 2007.

f) Testing Requirements

- (1) Within 60 days of the effective date of this permit, the permittee shall conduct certification tests on the continuous opacity monitoring system equipment pursuant to 40 CFR Part 60, Appendix B, Performance Specification 1 and ORC section 3704.03(l).

Personnel from the Ohio EPA Central Office and the appropriate Ohio EPA District Office or local air agency shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. Two copies of the test results shall be submitted to Ohio EPA, one copy to the appropriate Ohio EPA District Office or local air agency and one copy to Ohio EPA Central Office, and pursuant to OAC rule 3745-15-04, within 30 days after the test is completed.

Certification of the continuous opacity monitoring system shall be granted upon determination by the Ohio EPA, Central Office that the system meets the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1; ORC section 3704.03(l); and ASTM D 6216-98.

Note: The permittee has received certification of the COMS as effective March 4, 2009 (per letter from Enforcement Section staff, Division of Air Pollution Control, Central Office).

[40 CFR 60.13 and 40 CFR Part 60, Appendix B]

- (2) Ongoing compliance with the opacity limitation contained in this permit, 40 CFR Part 60, and any other applicable standard(s) shall be demonstrated through the data collected as required in the Monitoring and Record keeping Section of this permit.  
[40 CFR 60.13 and 40 CFR Part 60, Appendix B]
- (3) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following method(s):

- a. Emission Limitations: (Short term limitations when burning natural gas)  
0.084 lb CO per mmBtu  
0.10 lb NO<sub>x</sub> per mmBtu  
0.01 lb OC per mmBtu  
0.0076 lb PM<sub>10</sub> per mmBtu

Applicable Compliance Method:

Compliance with the short-term emission limitation for CO shall be demonstrated by dividing an emission factor of 84 lbs CO /mmcf (AP-42 Section 1.4, Natural Gas Combustion Table 1.4-1 [7/98]) by a natural gas heat content of 1000 Btu/cf. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-4, and 10 of 40 CFR, Part 60, Appendix A.

Compliance with the short-term emission limitation for OC shall be demonstrated by dividing an emission factor of 11 lbs TOC /mmcf (AP-42 Section 1.4, Natural

Gas Combustion Table 1.4-2 [7/98]) by a natural gas heat content of 1000 Btu/cf. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-4, and 18, 25, and/or 25A, of 40 CFR, Part 60, Appendix A.

Compliance with the short-term emission limitation for PM<sub>10</sub> shall be demonstrated by dividing an emission factor of 7.6 lbs PM<sub>10</sub> /mmcf (AP-42 Section 1.4, Natural Gas Combustion Table 1.4-2 [7/98]) by a natural gas heat content of 1000 Btu/cf. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-4 of 40 CFR Part 60, Appendix A, and 201/201A and 202 of 40 CFR Part 51, Appendix M.

- b. Emission Limitations: (Short-term limits for burning oils)  
0.04 lb CO per mmBtu  
0.56 lb SO<sub>2</sub> per mmBtu  
0.21\* lb PM<sub>10</sub> /mmBtu (\* except for only No. 2 fuel oil)

Applicable Compliance Method:

Compliance with the short-term emission limitation for CO shall be demonstrated by dividing an emission factor of 5 lbs of CO /1000 gallons (AP-42 Section 1.3, Fuel Oil Combustion, Table 1.3-1 [9/98]) by a worst-case fuel oil heat content of 0.132 mmBtu/gal. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-4, and 10 of 40 CFR, Part 60, Appendix A.

Compliance with the short-term SO<sub>2</sub> emission limitation shall be demonstrated by the site-specific testing and monitoring plan required in b)(2)g.

Compliance with the short-term emission limitations for PM<sub>10</sub> and NO<sub>x</sub> shall be demonstrated by the testing requirements in f)(2).

- c. Emission Limitations: (for firing only No. 2 fuel oil)  
0.020 lb PE /mmBtu

Applicable Compliance Method:

The permittee may demonstrate compliance with the PE limitation above by dividing the emission factor, from AP-42, Table 1.3-1 (revised 09/98), of 2 lbs PE/1000 gallons by the heat content of the #2 fuel oil (140,000 Btu/gallon).

- d. Emission Limitations: (for firing only No. 2 fuel oil)  
0.017 lb PM<sub>10</sub> /mmBtu

Applicable Compliance Method:

The permittee may demonstrate compliance with the PE limitation above by dividing the sum of the emission factors, from AP-42, Table 1.3-1 (revised 09/98), of 1.08 lbs PM<sub>10</sub> /1000 gallons (filterable), and from AP-42, Table 1.3-2 (revised 09/98), of 1.3 lbs PM<sub>10</sub> /1000 gallons (total condensable) by the heat content of the #2 fuel oil (140,000 Btu/gallon).

- e. Emission Limitations: [for firing oils /biofuels]  
0.31 lb PE /mmBtu

## Applicable Compliance Method:

The permittee may demonstrate compliance with the PE limitation above by dividing the emission factor, from AP-42, Table 1.3-1 (revised 09/98), of 10 lbs PE/1000 gallons by the heat content of the #6 fuel oil (150,000 Btu/gallon).

- f. Emission Limitations: (Long-term emission limitations for burning any fuel)  
80.5 tons PM<sub>10</sub> /year;  
32.2 tons CO /year;  
3.83 tons OC /year

## Applicable Compliance Method:

The annual emission limitations were established by multiplying the short-term emission limitations of 0.21 lb PM<sub>10</sub> per mmBtu, 0.04 lb CO per mmBtu, and 0.01 lb OC per mmBtu, a maximum heat input capacity of 87.5 mmBtu/hr, a maximum operating schedule of 8760 hrs/yr and dividing by 2,000 lbs per ton. Therefore provided compliance is shown with the short-term limitations, compliance with the ton/yr limitations shall be assumed.

- g. Emission Limitation:  
246 tons of NO<sub>x</sub> per rolling 12-month period

## Applicable Compliance Method:

Compliance with the above emission limitation shall be demonstrated through monitoring and record keeping requirements in d)(5).

- h. Emission Limitation:  
246 tons of SO<sub>2</sub> per rolling, 12-month period

## Applicable Compliance Method:

Compliance with the above emission limitation shall be demonstrated through monitoring and record keeping requirements in d)(5).

- i. Emission Limitation:  
0.10 lb NO<sub>x</sub> per mmBtu  
0.23 lb NO<sub>x</sub> per mmBtu

## Applicable Compliance Method:

Compliance with the limitation for natural gas shall be demonstrated by dividing an emission factor of 50 lbs NO<sub>x</sub> /mmcf (AP-42 Section 1.4, Natural Gas Combustion Table 1.4-1 [7/98] -low-NO<sub>x</sub> burners) by a natural gas heat content of 1000 Btu/cf. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-4, and 7 of 40 CFR, Part 60, Appendix A.

The limitation for oils / biofuel was established from the manufacturer's guarantee for low-NO<sub>x</sub> burners. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-4, and 7 of 40 CFR, Part 60, Appendix A.

- j. Emission Limitation:  
20% opacity, as a six-minute average [See b)(2)b.]

Applicable Compliance Method:

Compliance shall be demonstrated by the testing requirements in f)(2).

k. Emission Limitation:

The sulfur content of any oil (residual oils, a mixture of #2 fuel oil and residual oils, or a mixture of residual oils) combusted in this emissions unit shall not exceed 0.5 weight percent.

Applicable Compliance Method:

Compliance with the short-term SO<sub>2</sub> emission limitation shall be demonstrated by the site-specific testing and monitoring plan required in b)(2)g.

(4) The permittee shall conduct, or have conducted, emissions testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup of such emissions unit.

b. The emission testing shall be conducted to demonstrate compliance with the following emission limitations:

i. 0.04 lb PM<sub>10</sub>/mmBtu, when burning oil;

ii. 0.23 lb NO<sub>x</sub>/mmBtu; and

iii. the opacity standard outlined in b)(2)b.

c. The following test methods shall be employed to demonstrate compliance with the above emissions limitations:

i. for PM<sub>10</sub>, Methods 1-4 of 40 CFR Part 60, Appendix A, and 201/201A and 202 of 40 CFR Part 51, Appendix M.

ii. for NO<sub>x</sub>, Methods 1-4, and 7 of 40 CFR, Part 60, Appendix A.

iii. for opacity, Method 9 of 40 CFR Part 60, Appendix A

Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA, NWDO.

d. The test shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the Ohio EPA, NWDO.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, NWDO. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, NWDO's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, NWDO shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report of the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, NWDO within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, NWDO.

g) **Miscellaneous Requirements**

- (1) This permit supersedes Permit to Install (PTI) 03-17366 issued June 12, 2008 for this emissions unit.