



Environmental Protection Agency

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

5/31/2012

Certified Mail

Gary Manning
Kao USA Inc.
2535 Spring Grove Avenue
Cincinnati, OH 45214-1773

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

RE: DRAFT AIR POLLUTION PERMIT-TO-INSTALL
Facility ID: 1431070624
Permit Number: P0109837
Permit Type: Initial Installation
County: Hamilton

Dear Permit Holder:

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

Andrew Hall
Permit Review/Development Section
Ohio EPA, DAPC
50 West Town Street, Suite 700
P.O. Box 1049
Columbus, Ohio 43216-1049

and Southwest Ohio Air Quality Agency
250 William Howard Taft Rd.
Cincinnati, OH 45219

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper. You will be notified in writing if a public hearing is scheduled. A decision on issuing a final permit-to-install will be made after consideration of comments received and oral testimony if a public hearing is conducted. Any permit fee that will be due upon issuance of a final Permit-to-Install is indicated in the Authorization section. Please do not submit any payment now. If you have any questions, please contact Southwest Ohio Air Quality Agency 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
SWOQA; Indiana; Kentucky



Permit Strategy Write-Up

1. Check all that apply:

Synthetic Minor Determination

Netting Determination

2. Source Description:

KAO USA Inc. has submitted an installation application for 2 identical new 20.1 mmBtu/hr boilers, emission units B004 and B005. The boilers are natural gas fired with No. 2 fuel oil backup. No. 2 fuel oil will be limited to 500,000 gallons per rolling 12 months. The oil is planned for use only during periods of gas curtailment. The permit emission limitations are below the New Source Review (NSR) threshold levels to avoid being a major modification under Prevention of Significant Deterioration (PSD) regulations for sulfur dioxide (SO₂).

3. Facility Emissions and Attainment Status:

The facility is currently before this permitting actin a major stationary source for SO₂. After installation of the two new boilers, an existing gas fired boiler and a coal fired boiler will be removed.

4. Source Emissions:

Hamilton County is attainment for all criteria pollutants. The emissions for each boiler are:

Particulate emissions (PE) - 0.029 lb/mmBtu and 2.54 tons per year (TPY).

Particulate matter 10 microns in diameter or less (PM₁₀) - 0.021 lb/mmBtu and 1.78 TPY Particulate matter 2.5 microns in diameter or less (PM_{2.5}) - 0.014 lb/mmBtu and 1.20 TPY

Organic compounds (OC) - 0.011 lb/mmBtu and 0.97 TPY

Nitrogen oxide (NO_x) - 0.088 lb/mmBtu and 7.7 TPY

Carbon monoxide (CO) - 0.083 lb/mmBtu and 7.23 TPY

SO₂ - 0.50 lb/mmBtu and 17.5 TPY

Applicable rules – Ohio Administrative Code (OAC) rule 3745-31-05(A)(3), OAC rule 3745-31-05(D), OAC rule 3745-17-07(A)(1), OAC rule 3745-17-10(B), OAC rule 3745-18-06(A), OAC rule 3745-18-06(A), OAC rule 3745-18-06(D), OAC rule 3745-110-03(A) and 40 CFR Part 60 Subpart Dc.

5. Conclusion:

The permit is recommended for draft issuance to secure federally enforceable to term to avoid being a major modification at a currently major stationary source for PSD..

6. Please provide additional notes or comments as necessary:

None.

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

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	5.08
OC	1.94
NOx	15.4
CO	14.5
SO2	35.0

PUBLIC NOTICE
5/31/2012 Issuance of Draft Air Pollution Permit-To-Install

Kao USA Inc.
2535 Spring Grove Avenue,
Cincinnati, OH 45214-1773
Hamilton County
FACILITY DESC.: Toilet Preparation Manufacturing
PERMIT #: P0109837
PERMIT TYPE: Initial Installation
PERMIT DESC: Initial installation of two natural gas-fired boilers with fuel oil backup.

The Director of the Ohio Environmental Protection Agency issued the draft permit above. The permit and complete instructions for requesting information or submitting comments may be obtained at:
<http://epa.ohio.gov/dapc/permitsonline.aspx> by entering the permit # or: Mike Kramer, Southwest Ohio Air Quality Agency, 250 William Howard Taft Rd., Cincinnati, OH 45219. Ph: (513)946-7777



DRAFT

**Division of Air Pollution Control
Permit-to-Install
for
Kao USA Inc.**

Facility ID:	1431070624
Permit Number:	P0109837
Permit Type:	Initial Installation
Issued:	5/31/2012
Effective:	To be entered upon final issuance



Division of Air Pollution Control
Permit-to-Install
for
Kao USA Inc.

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Authorization

Facility ID: 1431070624
Facility Description: Personal care product manufacturing
Application Number(s): A0043929
Permit Number: P0109837
Permit Description: Initial installation of two natural gas-fired boilers with fuel oil backup.
Permit Type: Initial Installation
Permit Fee: \$1,200.00 *DO NOT send payment at this time, subject to change before final issuance*
Issue Date: 5/31/2012
Effective Date: To be entered upon final issuance

This document constitutes issuance to:

Kao USA Inc.
2535 Spring Grove Avenue
Cincinnati, OH 45214-1773

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:

Southwest Ohio Air Quality Agency
250 William Howard Taft Rd.
Cincinnati, OH 45219
(513)946-7777

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: P0109837

Permit Description: Initial installation of two natural gas-fired boilers with fuel oil backup.

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

Emissions Unit ID:	B004
Company Equipment ID:	BR7761
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	B005
Company Equipment ID:	BR7762
Superseded Permit Number:	
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 Southwest Ohio Air Quality Agency.

- (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 Southwest Ohio Air Quality Agency. 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 Southwest Ohio Air Quality Agency 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 Southwest Ohio Air Quality Agency 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 Southwest Ohio Air Quality 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.

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 Southwest Ohio Air Quality Agency.
- b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from 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 Southwest Ohio Air Quality Agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

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

Effective Date: To be entered upon final issuance

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. B004, BR7761

Operations, Property and/or Equipment Description:

20.1 mmBtu/hr natural gas fired boiler with No. 2 fuel oil back up

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 operation(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 are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Table with 2 columns: Applicable Rules/Requirements and Applicable Emissions Limitations/Control Measures. Row 'a.' lists OAC rule 3745-31-05(A)(3) and various emission limits for PE, PM10, PM-2.5, OC, NOx, CO, and SO2.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1), OAC rule 3745-18-06(A), OAC rule 3745-18-06(D), OAC rule 3745-31-05(D), and 40 CFR Part 60 Subpart Dc.
b.	OAC rule 3745-31-05(A)(3)(b) (as effective 12/1/06)	See b)(2)c.
c.	ORC 3704.03(T)	Sulfur dioxide (SO ₂) emissions shall not exceed 0.50 lb/mmBtu.
d.	OAC rule 3745-31-05(D) Synthetic Minor to Avoid Prevention of Significant Deterioration	Sulfur dioxide (SO ₂) emissions shall not exceed 17.5TPY, as a rolling 12 month limitation. See c)(1) and c)(2).
e.	OAC rule 3745-17-07(A)(1)	See b)(2)a.
f.	OAC rule 3745-17-10(B)(1)	See b)(2)d.
g.	OAC rule 3745-18-06(A)	Fuel burning equipment is exempt from paragraphs (D), (F) and (G) of OAC rule 3745-18-06, and from rules 3745-18-07 to 3745-18-94 of the Administrative Code during any calendar day in which natural gas is the only fuel burned.
h.	OAC rule 3745-18-06(D)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3) and ORC 3704.03(T).
i.	OAC rule 3745-110-03(A)	See c)(5).
j.	40 CFR Part 60 Subpart Dc New Source Performance Standard (NSPS)	See c)(1). Not exceed 20% opacity as a 6-minute average, except for one 6-minute period per hour of not more than 27% opacity.
k.	40 CFR Part 63 Subpart JJJJJ New Emission Standards for Hazardous Air Pollutants (Area source MACT category)	Exempt from these requirements pursuant to 63.11195(e) as long as this emissions unit complies with the following requirements: gas-fired boilers as defined in 63.11237 which states a boiler that primarily burns gas is still considered a gas-fired boiler even if it also burns oil or other liquid fuel during periods of gas curtailment, gas supply emergencies, or for periodic testing not to exceed 48 hours during any calendar year.

- (2) Additional Terms and Conditions
- a. Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
 - b. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to Ohio Administrative Code (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 the Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for National Ambient Air Quality Standards (NAAQS) pollutant(s) 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 OAC rule 3745-31-05, then these emission limitations/control measures no longer apply.
 - c. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 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 the PE, PM₁₀, PM_{2.5}, NO_x, VOC and CO emissions from this air contaminant source since the uncontrolled potential to emit for PE, PM₁₀, PM_{2.5}, NO_x, VOC and CO is each less than 10 tons/year.
 - d. The maximum allowable particulate emissions for the fuel burning equipment fired with only gaseous fuels (excluding blast furnace gas) shall be 0.020 pound per million Btu of actual heat input.
 - e. The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.
 - f. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of natural gas or No. 2 fuel oil, an annual No. 2 fuel use limitation, the fuel oil sulfur content limitation, the use of low-NO_x burners, the visible emissions limitation, and compliance with the mass emission limitations.
- c) Operational Restrictions
- (1) The quality of No. 2 fuel oil received for burning in this emissions unit shall have a combination of sulfur content and heat content sufficient to comply with the allowable sulfur dioxide emission limitation of 0.50 lb/mmBtu of actual heat input and the sulfur content limitation for No. 2 fuel oil of less than or equal to 0.5 weight per cent sulfur.



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- (2) The maximum annual No. 2 fuel oil usage rate for this emissions unit shall not exceed 500,000 gallons per year, based on a rolling, 12-month summation.

To ensure enforceability during the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, the permittee shall not exceed the fuel oil usage levels specified in the following table:

Table with 2 columns: Month(s) and Maximum Allowable Cumulative Fuel Oil Usage. Rows range from 1 to 1-12, with usage increasing from 200,000 to 500,000 gallons.

After the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, compliance with the annual fuel oil usage limitation shall be based upon a rolling, 12 month summation.

- (3) The permittee shall operate and maintain low-NOx burners...
(4) The permittee shall burn only natural gas or No. 2 fuel oil...
(5) The owner or operator of a small boiler must annually perform a tune-up...
d) Monitoring and/or Recordkeeping Requirements
(1) The permittee shall maintain records of the oil burned...

Alternative 1:

For each shipment of oil received for burning in this emission, 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.

Alternative 2:

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

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

- (2) The permittee shall collect and record the following information each month for this emissions unit:
- a. the total amount of No. 2 fuel oil used, in gallons per month;
 - b. the updated rolling, 12-month summation of fuel oil usage, in gallons (the total amount of gallons for the current month plus the total amount of gallons for the previous eleven calendar months);
 - c. the calculation of the annual capacity factor, pursuant to 40 CFR 60.41b, for No. 2 fuel oil in order to demonstrate infrequent operation of this emissions unit; and
 - d. the rolling, 12-month summation of SO₂ emissions.

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

e) Reporting Requirements

- (1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.
- (2) The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month No. 2 fuel oil usage and SO₂ emission limitations.
- (3) 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 for shipment of oil, 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.
- (4) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or No. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:

If required, Compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.

Emission Limitations:

Particulate emissions (PE) shall not exceed 0.029 lb/mmBtu and 2.54 TPY. (Limitation based on fuel oil burning.)

The maximum allowable particulate emissions for the fuel burning equipment fired with only gaseous fuels (excluding blast furnace gas) shall be 0.020 pound per million Btu of actual heat input.

Applicable Compliance Method:

The emission limitations were based upon the emission factor from WebFIRE and submitted by the facility with the permit application on 4/04/2012. Compliance with the annual emission limitation may be demonstrated by multiplying the lb PE/mmBtu value by the maximum rated heat input capacity of the emissions unit (in mmBtu/hr), then multiplying by 8760 hrs/yr and dividing by 2000 lbs/ton.

If required the permittee shall demonstrate compliance with the lb/MMBtu emission limitations in accordance with USEPA reference Method 1-5 of 40 CFR, Part 60, Appendix A.

b. Emission Limitations:

Particulate matter emissions 10 microns and less in diameter (PM10) shall not exceed 0.021 lb/mmBtu and 1.78 tons per year (TPY).

Applicable Compliance Method:

The emission limitations were based upon the emission factor from WebFIRE and submitted by the facility with the permit application on 4/04/2012. Compliance with the annual emission limitation may be demonstrated by multiplying the lb PE/mmBtu value by the maximum rated heat input capacity of the emissions unit (in mmBtu/hr), then multiplying by 8760 hrs/yr and dividing by 2000 lbs/ton.

c. Emission Limitations:

Particulate matter emissions 2.5 microns and less in diameter (PM-2.5) shall not exceed 0.014 lb/mmBtu and 1.20 tons per year (TPY).

Applicable Compliance Method:

The emission limitations were based upon the emission factor from WebFIRE and submitted by the facility with the permit application on 4/04/2012. Compliance with the annual emission limitation may be demonstrated by multiplying the lb PE/mmBtu value by the maximum rated heat input capacity of the emissions unit (in mmBtu/hr), then multiplying by 8760 hrs/yr and dividing by 2000 lbs/ton.

d. Emission Limitations:

Nitrogen oxides (NOx) emissions shall not exceed 0.088 lb/mmBtu and 7.7 TPY.

Applicable Compliance Method:

The emission limitations were based upon the emission factor from WebFIRE and submitted by the facility with the permit application on 4/04/2012. Compliance with the annual emission limitation may be demonstrated by multiplying the lb PE/mmBtu value by the maximum rated heat input capacity of the emissions unit (in mmBtu/hr), then multiplying by 8760 hrs/yr and dividing by 2000 lbs/ton.

If required, the permittee shall demonstrate compliance with the lb/mmBtu limitations in accordance with Method 7, 40 CFR, Part 60, Appendix A.

e. Emission Limitations:

Sulfur dioxide (SO₂) emissions shall not exceed 0.50 lb/mmBtu and 17.5TPY.

Applicable Compliance Method:

The emission limitations were based upon the emission factor from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.3, Table 1.3-1 (9/98). Compliance with the lb/mmBtu emission limitation shall be based upon the record keeping in d)(1) and d)(3). Compliance with the annual emission limitation shall be determined by multiplying the annual average lb SO₂/mmBtu value by the annual average heat content and the total gallons on No. 2 fuel oil burned, and then dividing by 2000 lbs/ton.

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

f. Emission Limitations:

Carbon monoxide (CO) emissions shall not exceed 0.083 lb/mmBtu and 7.23 TPY.

Applicable Compliance Method:

The emission limitations were based upon the emission factor from WebFIRE and submitted by the facility with the permit application on 4/04/2012. Compliance with the annual emission limitation may be demonstrated by multiplying the lb PE/mmBtu value by the maximum rated heat input capacity of the emissions unit (in mmBtu/hr), then multiplying by 8760 hrs/yr and dividing by 2000 lbs/ton.

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

g. Emission Limitations:

Organic compound (OC) emissions shall not exceed 0.011 lb/mmBtu and 0.97 TPY.

Applicable Compliance Method:

The emission limitations were based upon the emission factor from WebFIRE and submitted by the facility with the permit application on 4/04/2012. Compliance with the annual emission limitation may be demonstrated by multiplying the lb PE/mmBtu value by the maximum rated heat input capacity of the emissions unit (in mmBtu/hr), then multiplying by 8760 hrs/yr and dividing by 2000 lbs/ton.

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

- (2) Compliance with the rolling 12-month No. 2 fuel oil usage restriction and SO₂ emission limitation shall be determined by the record keeping requirements specified in d)(2).
- (3) Compliance with the sulfur content limitation for No. 2 fuel oil specified shall be determined by the record keeping requirements specified in d)(1).

g) Miscellaneous Requirements

- (1) None.



2. B005, BR7762

Operations, Property and/or Equipment Description:

20.1 mmBtu/hr natural gas fired boiler with No. 2 fuel oil back up

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 operation(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 are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Table with 2 columns: Applicable Rules/Requirements and Applicable Emissions Limitations/Control Measures. Row 'a.' lists OAC rule 3745-31-05(A)(3) and various emission limits for particulate matter, organic compounds, nitrogen oxides, carbon monoxide, and sulfur dioxide.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		OAC rule 3745-17-07(A)(1), OAC rule 3745-18-06(A), OAC rule 3745-18-06(D), OAC rule 3745-31-05(D), and 40 CFR Part 60 Subpart Dc.
b.	OAC rule 3745-31-05(A)(3)(b) (as effective 12/1/06)	See b)(2)c.
c.	ORC 3704.03(T)	Sulfur dioxide (SO ₂) emissions shall not exceed 0.50 lb/mmBtu.
d.	OAC rule 3745-31-05(D) Synthetic Minor to Avoid Prevention of Significant Deterioration	Sulfur dioxide (SO ₂) emissions shall not exceed 17.5TPY, as a rolling 12 month limitation. See c)(1) and c)(2).
e.	OAC rule 3745-17-07(A)(1)	See b)(2)a.
f.	OAC rule 3745-17-10(B)(1)	See b)(2)d.
g.	OAC rule 3745-18-06(A)	Fuel burning equipment is exempt from paragraphs (D), (F) and (G) of OAC rule 3745-18-06, and from rules 3745-18-07 to 3745-18-94 of the Administrative Code during any calendar day in which natural gas is the only fuel burned.
h.	OAC rule 3745-18-06(D)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3) and ORC 3704.03(T).
i.	OAC rule 3745-110-03(A)	See c)(5).
j.	40 CFR Part 60 Subpart Dc New Source Performance Standard (NSPS)	See c)(1). Not exceed 20% opacity as a 6-minute average, except for one 6-minute period per hour of not more than 27% opacity.
k.	40 CFR Part 63 Subpart JJJJJJ New Emission Standards for Hazardous Air Pollutants (Area source MACT category)	Exempt from these requirements pursuant to 63.11195(e) as long as this emissions unit complies with the following requirements: gas-fired boilers as defined in 63.11237 which states a boiler that primarily burns gas is still considered a gas-fired boiler even if it also burns oil or other liquid fuel during periods of gas curtailment, gas supply emergencies, or for periodic testing not to exceed 48 hours during any calendar year.

- (2) Additional Terms and Conditions
- a. Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
 - b. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to Ohio Administrative Code (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 the Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for National Ambient Air Quality Standards (NAAQS) pollutant(s) 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 OAC rule 3745-31-05, then these emission limitations/control measures no longer apply.
 - c. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 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 the PE, PM₁₀, PM_{2.5}, NO_x, VOC and CO emissions from this air contaminant source since the uncontrolled potential to emit for PE, PM₁₀, PM_{2.5}, NO_x, VOC and CO is each less than 10 tons/year.
 - d. The maximum allowable particulate emissions for the fuel burning equipment fired with only gaseous fuels (excluding blast furnace gas) shall be 0.020 pound per million Btu of actual heat input.
 - e. The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.
 - f. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of natural gas or No. 2 fuel oil, an annual No. 2 fuel use limitation, the fuel oil sulfur content limitation, the use of low-NO_x burners, the visible emissions limitation, and compliance with the mass emission limitations.
- c) Operational Restrictions
- (1) The quality of No. 2 fuel oil received for burning in this emissions unit shall have a combination of sulfur content and heat content sufficient to comply with the allowable sulfur dioxide emission limitation of 0.50 lb/mmBtu of actual heat input and the sulfur content limitation for No. 2 fuel oil of less than or equal to 0.5 weight per cent sulfur.
 - (2) The maximum annual No. 2 fuel oil usage rate for this emissions unit shall not exceed 500,000 gallons per year, based on a rolling, 12-month summation.



Effective Date: To be entered upon final issuance

To ensure enforceability during the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, the permittee shall not exceed the fuel oil usage levels specified in the following table:

Table with 2 columns: Month(s) and Maximum Allowable Cumulative Fuel Oil Usage. Rows range from 1 to 1-12 with corresponding gallon limits.

After the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, compliance with the annual fuel oil usage limitation shall be based upon a rolling, 12 month summation.

- (3) The permittee shall operate and maintain low-NOx burners...
(4) The permittee shall burn only natural gas or No. 2 fuel oil...
(5) The owner or operator of a small boiler must annually perform a tune-up...
d) Monitoring and/or Recordkeeping Requirements
(1) The permittee shall maintain records of the oil burned...

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.

Alternative 2:

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

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

- (2) The permittee shall collect and record the following information each month for this emissions unit:
 - a. the total amount of No. 2 fuel oil used, in gallons per month;
 - b. the updated rolling, 12-month summation of fuel oil usage, in gallons (the total amount of gallons for the current month plus the total amount of gallons for the previous eleven calendar months);
 - c. the calculation of the annual capacity factor, pursuant to 40 CFR 60.41b, for No. 2 fuel oil in order to demonstrate infrequent operation of this emissions unit; and
 - d. the rolling, 12-month summation of SO₂ emissions
- (3) For each day during which the permittee burns a fuel other than natural gas or No. 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

e) Reporting Requirements

- (1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.
- (2) The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month No. 2 fuel oil usage and SO₂ emission limitations.
- (3) 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 for shipment of oil, 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.
- (4) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or No. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:

If required, Compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.

Emission Limitations:

Particulate emissions (PE) shall not exceed 0.029 lb/mmBtu and 2.54 tons per year (TPY). (Limitation based on fuel oil burning.)

The maximum allowable particulate emissions for the fuel burning equipment fired with only gaseous fuels (excluding blast furnace gas) shall be 0.020 pound per million Btu of actual heat input.

Applicable Compliance Method:

The emission limitations were based upon the emission factor from WebFIRE and submitted by the facility with the permit application on 4/04/2012. Compliance with the annual emission limitation may be demonstrated by multiplying the lb PE/mmBtu value by the maximum rated heat input capacity of the emissions unit (in mmBtu/hr), then multiplying by 8760 hrs/yr and dividing by 2000 lbs/ton.

If required the permittee shall demonstrate compliance with the lb/MMBtu emission limitations in accordance with USEPA reference Method 1-5 of 40 CFR, Part 60, Appendix A.

b. Emission Limitations:

Particulate matter emissions 10 microns and less in diameter (PM10) shall not exceed 0.021 lb/mmBtu and 1.78 tons per year (TPY).

Applicable Compliance Method:

The emission limitations were based upon the emission factor from WebFIRE and submitted by the facility with the permit application on 4/04/2012. Compliance with the annual emission limitation may be demonstrated by multiplying the lb PE/mmBtu value by the maximum rated heat input capacity of the emissions unit (in mmBtu/hr), then multiplying by 8760 hrs/yr and dividing by 2000 lbs/ton.

c. Emission Limitations:

Particulate matter emissions 2.5 microns and less in diameter (PM-2.5) shall not exceed 0.014 lb/mmBtu and 1.20 tons per year (TPY).

Applicable Compliance Method:

The emission limitations were based upon the emission factor from WebFIRE and submitted by the facility with the permit application on 4/04/2012. Compliance with the annual emission limitation may be demonstrated by multiplying the lb PE/mmBtu value by the maximum rated heat input capacity of the emissions unit (in mmBtu/hr), then multiplying by 8760 hrs/yr and dividing by 2000 lbs/ton.

d. Emission Limitations:

Nitrogen oxides (NOx) emissions shall not exceed 0.088 lb/mmBtu and 7.7 TPY.

Applicable Compliance Method:

The emission limitations were based upon the emission factor from WebFIRE and submitted by the facility with the permit application on 4/04/2012. Compliance with the annual emission limitation may be demonstrated by multiplying the lb PE/mmBtu value by the maximum rated heat input capacity of

the emissions unit (in mmBtu/hr), then multiplying by 8760 hrs/yr and dividing by 2000 lbs/ton.

If required, the permittee shall demonstrate compliance with the lb/mmBtu limitations in accordance with Method 7, 40 CFR, Part 60, Appendix A.

e. Emission Limitations:

Sulfur dioxide (SO₂) emissions shall not exceed 0.50 lb/mmBtu and 17.5TPY.

Applicable Compliance Method:

The emission limitations were based upon the emission factor from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.3, Table 1.3-1 (9/98). Compliance with the lb/mmBtu emission limitation shall be based upon the record keeping in d)(1) and d)(3). Compliance with the annual emission limitation shall be determined by multiplying the annual average lb SO₂/mmBtu value by the annual average heat content and the total gallons on No. 2 fuel oil burned, and then dividing by 2000 lbs/ton.

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

f. Emission Limitations:

Carbon monoxide (CO) emissions shall not exceed 0.083 lb/mmBtu and 7.23 TPY.

Applicable Compliance Method:

The emission limitations were based upon the emission factor from WebFIRE and submitted by the facility with the permit application on 4/04/2012. Compliance with the annual emission limitation may be demonstrated by multiplying the lb PE/mmBtu value by the maximum rated heat input capacity of the emissions unit (in mmBtu/hr), then multiplying by 8760 hrs/yr and dividing by 2000 lbs/ton.

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

g. Emission Limitations:

Organic compound (OC) emissions shall not exceed 0.011 lb/mmBtu and 0.97 TPY.

Applicable Compliance Method:

The emission limitations were based upon the emission factor from WebFIRE and submitted by the facility with the permit application on 4/04/2012. Compliance with the annual emission limitation may be demonstrated by multiplying the lb PE/mmBtu value by the maximum rated heat input capacity of the emissions unit (in mmBtu/hr), then multiplying by 8760 hrs/yr and dividing by 2000 lbs/ton.

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

- (2) Compliance with the rolling 12-month No. 2 fuel oil usage restriction and SO₂ emission limitation shall be determined by the record keeping requirements specified in d)(2).
 - (3) Compliance with the sulfur content limitation for No. 2 fuel oil specified shall be determined by the record keeping requirements specified in d)(1).
- g) Miscellaneous Requirements
- (1) None.