



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

4/17/2013

Certified Mail

Mr. Dennis Hale  
CARGILL, INCORPORATED  
2400 Industrial Drive  
Sidney, OH 45365-8952

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL  
Facility ID: 0575010160  
Permit Number: P0112518  
Permit Type: Administrative Modification  
County: Shelby

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

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) 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. Because this permit contains conditions and restrictions, please read it very carefully. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**

**How to appeal this permit**

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  
77 South High Street, 17th Floor  
Columbus, OH 43215

## **How to save money, reduce pollution and reduce energy consumption**

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. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: [www.ohioairquality.org/clean\\_air](http://www.ohioairquality.org/clean_air)

## **How to give us feedback on your permitting experience**

Please complete a survey at [www.epa.ohio.gov/dapc/pemitsurvey.aspx](http://www.epa.ohio.gov/dapc/pemitsurvey.aspx) and give us feedback on your permitting experience. We value your opinion.

## **How to get an electronic copy of your permit**

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Division of Air Pollution Control (DAPC) Web page, [www.epa.ohio.gov/dapc](http://www.epa.ohio.gov/dapc) by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

If you have any questions, please contact Ohio EPA DAPC, Southwest District Office at (937)2856357 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,

*Michael W. Ahern*

Michael W. Ahern, Manager

Permit Issuance and Data Management Section, DAPC

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



**FINAL**

**Division of Air Pollution Control  
Permit-to-Install  
for  
CARGILL, INCORPORATED**

Facility ID:	0575010160
Permit Number:	P0112518
Permit Type:	Administrative Modification
Issued:	4/17/2013
Effective:	4/17/2013





**Division of Air Pollution Control**  
**Permit-to-Install**  
for  
CARGILL, INCORPORATED

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**Final Permit-to-Install**  
**CARGILL, INCORPORATED**  
**Permit Number: P0112518**  
**Facility ID: 0575010160**  
**Effective Date: 4/17/2013**

## Authorization

Facility ID: 0575010160  
 Facility Description: Soybean processing including: soybean oil extraction and refining  
 Application Number(s): M0002029  
 Permit Number: P0112518  
 Permit Description: Cargill is requesting administrative modifications of Permits to Install (PTI) 05-7365 (issued November 1, 1995) and PTI 05-219 (issued January 20, 1978) to incorporate requirements established in a Consent Decree that was entered by the United States District Court for the District of Minnesota on March 3, 2006 in United States v. Cargill, Inc. (Civil Action No. 05-2037) [referred to as the Consent Decree]. This administrative modification is also to address the newly promulgated Boiler MACT.  
 Permit Type: Administrative Modification  
 Permit Fee: \$0.00  
 Issue Date: 4/17/2013  
 Effective Date: 4/17/2013

This document constitutes issuance to:

CARGILL, INCORPORATED  
 2400 INDUSTRIAL DRIVE  
 Sidney, OH 45365-8952

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

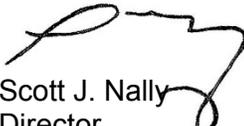
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Southwest District Office  
 401 East Fifth Street  
 Dayton, OH 45402  
 (937)285-6357

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: P0112518

Permit Description: Cargill is requesting administrative modifications of Permits to Install (PTI) 05-7365 (issued November 1, 1995) and PTI 05-219 (issued January 20, 1978) to incorporate requirements established in a Consent Decree that was entered by the United States District Court for the District of Minnesota on March 3, 2006 in United States v. Cargill, Inc. (Civil Action No. 05-2037) [referred to as the Consent Decree]. This administrative modification is also to address the newly promulgated Boiler MACT.

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>B001</b>
Company Equipment ID:	BOILER #1
Superseded Permit Number:	05-219
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>B002</b>
Company Equipment ID:	BOILER #2
Superseded Permit Number:	05-219
General Permit Category and Type:	Not Applicable



**Final Permit-to-Install**  
CARGILL, INCORPORATED  
**Permit Number:** P0112518  
**Facility ID:** 0575010160  
**Effective Date:**4/17/2013

## **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, Southwest 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, Southwest 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, Southwest 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, Southwest 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, Southwest 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, Southwest 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, Southwest 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.



**Final Permit-to-Install**  
CARGILL, INCORPORATED  
**Permit Number:** P0112518  
**Facility ID:** 0575010160  
**Effective Date:** 4/17/2013

## **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) The permittee shall comply with the applicable provisions of the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters, as promulgated by the United States Environmental Protection Agency under 40 CFR Part 63, Subpart DDDDD. The final rules found in 40 CFR Part 63, Subpart DDDDD establish national emission standards for hazardous air pollutants (NESHAP), operational limits, work practice standards, and compliance requirements for industrial, commercial, and institutional boilers located at a major source of hazardous air pollutants (HAP). The permittee shall comply with the requirements and limits of this NESHAP for the facility's new (commenced construction after 6/4/10) boilers by January 31, 2013, or upon startup, whichever is later; and the facility's existing boilers shall be in compliance with 40 CFR Part 63, Subpart DDDDD no later than January 31, 2016.

[40 CFR 63.6(b)(2)], [40 CFR 63.7485], [40 CFR 63.7490], and [40 CFR 63.7495]

- b) The terms in this permit identify the requirements of the National Emissions Standards for Hazardous Air Pollutants (NESHAP) contained in 40 CFR Part 63, Subpart DDDDD and are meant to help the permittee maintain compliance with this NESHAP. The requirements of this Subpart apply to the facility's boilers and process heaters according to their applicable subcategory, as identified in 40 CFR 63.7499 and as defined in 40 CFR 63.7575.

[40 CFR Part 63, Subpart DDDDD]



**Final Permit-to-Install**  
CARGILL, INCORPORATED  
**Permit Number:** P0112518  
**Facility ID:** 0575010160  
**Effective Date:**4/17/2013

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



**1. B001, BOILER #1**

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

54.35 mmBtu/hr [derated to 35.02 mmBtu/hr], coal-fired boiler #1, equipped with a baghouse

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.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 05-00219)	This emissions unit shall be equipped with a baghouse that will be monitored and maintained in accordance with the requirements of this permit.
b.	OAC rule 3745-17-10(C)(1) Figure I Curve P-1	0.27 lbs of particulate emissions (PE)/ mmBTU of actual heat input.  The emission limitation specified by this rule is less stringent than the limitation established pursuant to 40 CFR Part 63, Subpart DDDDD.
c.	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.  The visible emissions limitation specified in this rule is less stringent than the visible emissions limitation established pursuant to Part 63, Subpart DDDDD.
d.	OAC rule 3745-18-81	3.6 lbs of SO <sub>2</sub> /mmBtu of actual heat input
e.	OAC rule 3745-31-05(F)	The combined SO <sub>2</sub> emissions from emissions units B001 and B002 shall not exceed 1,095 tons per rolling 12-month period.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
g.	<p>40 CFR Part 63, Subpart DDDDD, the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR 63.7485 -7575)  <u>Effective Date: January 31, 2013</u></p> <p><u>Compliance Date January 31, 2016 for existing sources.</u></p>	<p>The emissions from the boilers shall not exceed the following emission standards or the emissions limitations specified in Table 2 for existing units:</p> <p><u>HCl emissions must not exceed:</u>            2.2E-02 lb per MMBtu of heat input;</p> <p><u>Mercury emissions must not exceed:</u>            5.7 E-06 lb per MMBtu of heat input;</p> <p><u>Filterable PM emissions must not exceed:</u>            4.0E-02 lb per MMBtu of heat input;            or 5.3 E-05 lb per MMBtu of heat input;</p> <p><u>CO emissions must not exceed:</u>            160 ppmv on a dry basis corrected to 3% O<sub>2</sub>, 3- run average;            or if using CEMS: 340 ppmv on a dry basis corrected to 3% O<sub>2</sub>, 30-day rolling average;</p> <p>OR output limits (option)</p> <p><u>HCl emissions must not exceed:</u>            or 2.5 lb per MMBtu of steam output;            or 0.27 lb per MWh.</p> <p><u>Mercury emissions must not exceed:</u>            or 6.4 E-06 lb per MMBtu of steam output;            or 7.3E-05 lb per MWh.</p> <p><u>Filterable PM emissions must not exceed:</u>            or 4.2E-02 lb per MMBtu of steam output;            or 4.9E-01 lb per MWh;            or 5.6E-05 lb per MMBtu of steam output;            or 6.5E-04 lb per MWh.</p> <p><u>CO emissions must not exceed:</u>            or 0.14 lb per MMBTU of steam output;            or 1.7 lb per MWh, 3 run average.</p>
h.	<p>40 CFR Part 63, Subpart DDDDD Table 10</p>	<p>The applicability of the General Provision in Part 63 Subpart A to boilers subject to Subpart DDDDD are identified in Table</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		10 to the subpart.

(2) Additional Terms and Conditions

a. Pursuant to OAC rule 3745-17-10, the total heat input for this emissions unit has been derated from 54.35 mmBtu/hr to 35.02 mmBtu/hr. The derated total heat input of 35.02 mmBtu/hr corresponds to a steam load of 41,400 pounds per hour. Using the derated total heat input, the allowable particulate emissions rate for this emissions unit, from Figure I of OAC rule 3745-17-10, is 0.27 pound per mmBtu actual heat input.

b. The permittee shall develop and maintain a written quality assurance/quality control plan designed to ensure continuous valid and representative readings of SO<sub>2</sub> emissions from the continuous monitor(s), in units of the applicable standard(s). The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous SO<sub>2</sub> monitoring system must be kept on site and available for inspection during regular office hours.

The plan shall include the requirement to conduct quarterly cylinder gas audits or relative accuracy audits as required in 40 CFR Part 60; and to conduct relative accuracy test audits in units of the standard(s), in accordance with and at the frequencies required per 40 CFR Part 60.

[40 CFR 60.13] and [40 CFR Part 60, Appendix F].

c. The continuous emission monitoring system consists of all the equipment used to acquire data to provide a record of emissions and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.

[40 CFR 60.2] and/or [40 CFR 63.2] and [Appendix F to 40 CFR Part 60]

d. The emissions from this emissions unit shall be vented to the baghouse at all times the emissions unit is in operation.

[OAC rule 3745-77-07(A)(1)]

e. Pursuant to 40 CFR 64.2 (b), CAM will not apply to the MACT emission limitations or standards in 40 CFR Part 63, Subpart DDDDD, after the compliance date in that rule.

[Authority for term: 40 CFR Part 64]



- f. The permittee shall comply with the applicable requirements required under 40 CFR Part 63, Subpart DDDDD, including the following sections:

	Applicable Rule	Requirement
i.	40 CFR 63.7500)	Emission Limitations, Work Practice Standards, and Operating Limits
ii..	40 CFR 63.7510	Initial Compliance Requirements
iii..	40 CFR 63 Subpart DDDDD, Table 2	Emission Limits for Existing Boilers and Process Heaters

c) Operational Restrictions

- (1) At no time shall the steam flow rate from this emissions unit exceed 41,400 pounds per hour (as an hourly average).

[OAC rule 3745-31-05(A)(3)].

- (2) In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the acceptable range established for the pressure drop across the baghouse is between 0.5 to 8.0 inches of water.

[OAC rule 3745-31-05(A)(3)]

- (3) The permittee shall comply with the applicable operational requirements required under 40 CFR Part 63, Subpart DDDDD, including the following sections:

	Applicable Rule	Requirement
a.	40 CFR 63.7525	Monitoring, Installation, Operation, and Maintenance Requirements
b.	40 CFR 63 Subpart DDDDD, Table 3	Work Practice Standards
c.	40 CFR 63 Subpart DDDDD, Table 4	Operating Limits for Boilers and Process Heaters

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit is in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on daily basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.

Whenever the monitored value for the pressure drop deviates from the limit or range established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:



- a. the date and time the deviation began;
- b. the magnitude of the deviation at that time;
- c. the date the investigation was conducted;
- d. the name(s) of the personnel who conducted the investigation; and
- e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

- a. a description of the corrective action;
- b. the date corrective action was completed;
- c. the date and time the deviation ended;
- d. the total period of time (in minutes) during which there was a deviation;
- e. the pressure drop readings immediately after the corrective action was implemented; and
- f. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

This range or limit on the pressure drop across the baghouse is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the permitted limit or range for the pressure drop based upon information obtained during future testing that demonstrate compliance with the allowable particulate emission rate for the controlled emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a PTI review and modification of the Title V permit.

[OAC rule 3745-31-05(A)(3)] and [OAC rule 3745-77-07(C)(1)].

- (2) The permittee shall continuously monitor and record the steam flow rate, in pounds/hr, from this emissions unit. Copies of all steam flow rate charts shall be maintained for a period of 5 years, and shall be made available to the Director (the Ohio EPA, Southwest District Office) upon verbal or written request.



[OAC rule 3745-31-05(A)(3)] and [OAC rule 3745-77-07(C)(1)].

- (3) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
- a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned frequencies for performing the visible emissions checks if operating experience indicates that less frequent visible emissions checks would be sufficient to ensure compliance with the above-mentioned applicable requirements.

[OAC rule 3745-17-07(A)] or [OAC rule 3745-77-07(A)(3)]

- (4) The permittee shall maintain on-site, the document of certification received from the U.S. EPA or the Ohio EPA's Central Office documenting that the continuous SO<sub>2</sub> monitoring system has been certified to meet the requirements of 40 CFR 60, Appendix B, Performance Specification 2. The letter/document of certification shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

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



- (5) The permittee shall install, operate, and maintain equipment to continuously monitor and record SO<sub>2</sub> emissions from this emissions unit in units of the applicable standard(s). 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 SO<sub>2</sub> monitoring system including, but not limited to:

- a. emissions of SO<sub>2</sub> in parts per million on an instantaneous (one-minute) basis;
- b. emissions of SO<sub>2</sub> (s), in pounds emitted per million BTU's of actual heat input;
- c. the monthly (for B001 and B002, combined) emission rates of sulfur dioxide, in tons;
- d. the combined rolling 12-month (for B001 and B002, combined) emission rates of sulfur dioxide, in tons;
- e. results of quarterly cylinder gas audits;
- f. results of daily zero/span calibration checks and the magnitude of manual calibration adjustments;
- g. results of required relative accuracy test audit(s), including results in units of the applicable standard(s);
- h. hours of operation of the emissions unit, continuous SO<sub>2</sub> monitoring system, and control equipment;
- i. the date, time, and hours of operation of the emissions unit without the control equipment and/or the continuous SO<sub>2</sub> monitoring system;
- j. the date, time, and hours of operation of the emissions unit during any malfunction of the control equipment and/or the continuous SO<sub>2</sub> monitoring system; as well as,
- k. the reason (if known) and the corrective actions taken (if any) for each such event in (g) and (h).

- (6) [40 CFR 60.13] and [40 CFR Part 60, Appendices B & F]The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR Part 63 Subpart DDDDD, including the following sections:

	Applicable Rule	Requirement
a.	40 CFR 63.7521	Fuel Analyses, fuel specification, and procedures
b.	40 CFR 63.7522	Emissions Averaging
c.	40 CFR 63.7525	Monitoring, Installation, Operation, and Maintenance Requirements
d.	40 CFR 63.7530	Initial Compliance Demonstration
e.	40 CFR 63.7535	Minimum Amount of Monitoring Data



	Applicable Rule	Requirement
f.	40 CFR 63.7540 & 7541	Ongoing Compliance Demonstration
g.	40 CFR 63 Subpart DDDDD, Table 6	Fuel Analysis Requirements
h.	40 CFR 63 Subpart DDDDD, Table 7	Establishing Operating Limits
e.	40 CFR 63 Subpart DDDD, Table 8	Demonstrating Continuous Compliance

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports that identify the following information concerning the operation of the baghouse during the operation of the emissions unit(s):

- a. each period of time (start time and date, and end time and date) when the pressure drop across the baghouse was outside of the acceptable range;
- b. any period of time (start time and date, and end time and date) when the emissions unit(s) was/were in operation and the process emissions were not vented to the baghouse;
- c. each incident of deviation described in section “(1)a” (above) where a prompt investigation was not conducted;
- d. each incident of deviation described in section “(1)a” where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken;
- e. each incident of deviation described in section “(1)a” where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit;

[OAC rule 3745-15-03(B)(1)(a) and OAC rule 3745-15-03(C); and OAC rule 3745-77-07(C)(1)]

(2) If for any reason the steam flow rate from this emissions unit exceeded 41,400 pounds per hour, the following information shall be reported within 5 business days after the exceedance occurs:

- a. the date of the exceedance;
- b. the time interval over which the exceedance occurred;
- c. the value of the exceedance;
- d. the cause(s) of the exceedance;



- e. the corrective action which has been or will be taken to prevent similar exceedances in the future; and
- f. a copy of the steam chart which shows the exceedance.

These quarterly reports shall be submitted by February 15, May 15, August 15 and November 15 of each year, unless otherwise specified by the appropriate Ohio EPA District Office or local air agency, and shall cover the coal shipments received during the previous calendar quarters.

[Authority for term 3745-77-07(A)(3)(c), 3745-15-03(B)(1)(a), and 3745-15-03(C)]

- (3) The permittee shall submit semiannual written reports that identify:
  - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
  - b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]

- (4) The permittee shall comply with the following quarterly reporting requirements for the emissions unit and its continuous SO<sub>2</sub> monitoring system:
  - a. Pursuant to the monitoring, record keeping, and reporting requirements for continuous monitoring systems 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 SO<sub>2</sub> emissions in excess of any applicable limit specified in this permit, 40 CFR Part 60, OAC Chapter 3745-18, and any other applicable rules or regulations. The report shall document the date, commencement and completion times, duration, and magnitude of each exceedance, as well as the reason (if known) and the corrective actions taken (if any) for each exceedance. Excess emissions shall be reported in units of the applicable standard(s).
  - 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 SO<sub>2</sub> and other associated monitors;
    - iii. a description of any change in the equipment that comprises the continuous emission monitoring system (CEMS), including any change to



- the hardware, changes to the software that may affect CEMS readings, and/or changes in the location of the CEMS 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 SO<sub>2</sub> emissions for the calendar quarter (tons), based on SO<sub>2</sub> continuous monitoring data;
  - vi. the combined total SO<sub>2</sub> emissions for emissions unit B001 and B002 in tons per rolling 12 month period;
  - vii. the total operating time (hours) of the emissions unit;
  - viii. the total operating time of the continuous SO<sub>2</sub> monitoring system while the emissions unit was in operation;
  - ix. results and dates of quarterly cylinder gas audits;
  - x. unless previously submitted, results and dates of the relative accuracy test audit(s), including results in units of the applicable standard(s), (during appropriate quarter(s));
  - xi. unless previously submitted, the results of any relative accuracy test audit showing the continuous SO<sub>2</sub> monitor out-of-control and the compliant results following any corrective actions;
  - xii. the date, time, and duration of any/each malfunction\*\* of the continuous SO<sub>2</sub> monitoring system, emissions unit, and/or control equipment;
  - xiii. the date, time, and duration of any downtime\*\* of the continuous SO<sub>2</sub> monitoring system and/or control equipment while the emissions unit was in operation; and
  - xiv. the reason (if known) and the corrective actions taken (if any) for each event in (b)(xii) and (xiii).

Each report shall address the operations conducted and data obtained during the previous calendar quarter.

\* where no excess emissions have 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 EER quarterly report

\*\* each downtime and malfunction event shall be reported regardless if there is an exceedance of any applicable limit

[40 CFR 60.7]



- (5) The permittee shall comply with the applicable reporting requirements required under 40 CFR 63, Subpart DDDDD, including the following sections:

	Applicable Rule	Requirement
a.	40 CFR 63.7545	Notifications
b.	40 CFR 63.7550	Reporting
c.	40 CFR 63, Subpart DDDDD, Table 9	Reporting Requirements

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:

0.27 lbs of PE/ mmBTU of actual heat input.

The above allowable is based on the following equation  $E=0.8 \times H-0.3010$

Where:

E= Pounds of emissions per million BTU actual heat input; and

H = Total Heat Input, millions of BTU per hour.

Applicable Compliance Method:

The permittee shall demonstrate compliance with the emission limitation above based upon the results of stack testing conducted in accordance with Methods 1 through 5 of 40 CFR, Part 60, Appendix A.

- b. Emission Limitation

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

Applicable Compliance Method

If required, compliance shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9.

[OAC rule 3745-17-03(B)(1)(a)]

- c. Emission Limitation:

3.6 lbs of SO<sub>2</sub>/mmBtu of actual heat input



Applicable Compliance Method:

The permittee shall demonstrate compliance with the emission limitation above through the record keeping requirements in section d)(5) above.

d. Emission Limitation

1,095 tons of SO<sub>2</sub> per rolling 12-month period (for B001 and B002, combined)

Applicable Compliance Method:

The permittee shall demonstrate compliance with the emission limitation above through the record keeping requirements in section d)(5) above.

e. Emission Limitation

The emissions from the boilers shall not exceed the following emission standards or the emissions limitations specified in Table 2 for existing units:

HCl emissions must not exceed:

2.2E-02 lb per MMBtu of heat input;

Mercury emissions must not exceed:

5.7 E-06 lb per MMBtu of heat input;

Filterable PM emissions must not exceed:

4.0E-02 lb per MMBtu of heat input;

or 5.3 E-05 lb per MMBtu of heat input;

CO emissions must not exceed:

160 ppmv on a dry basis corrected to 3% O<sub>2</sub>, 3- run average;

or if using CEMS: 340 ppmv on a dry basis corrected to 3% O<sub>2</sub>, 30-day rolling average;

OR output limits (option)

HCl emissions must not exceed:

or 2.5 lb per MMBtu of steam output;

or 0.27 lb per MWh.

Mercury emissions must not exceed:

or 6.4 E-06 lb per MMBtu of steam output;

or 7.3E-05 lb per MWh.

Filterable PM emissions must not exceed:

or 4.2E-02 lb per MMBtu of steam output;

or 4.9E-01 lb per MWh;

or 5.6E-05 lb per MMBtu of steam output;

or 6.5E-04 lb per MWh.



CO emissions must not exceed:  
or 0.14 lb per MMBTU of steam output;  
or 1.7 lb per MWh, 3 run average.

Applicable Compliance Method:

The permittee shall conduct an initial performance test within 180 days after the compliance date to demonstrate compliance with the limitations in the NESHAP. Initial compliance with 40 CFR Part 63, Subpart DDDDD shall be demonstrated through performance testing according to 40 CFR 63.7520 and Table 5; by conducting a fuel analysis for each type of fuel burned according to 40 CFR 63.7521 and Table 6; by establishing operating limits (Table 4) according to 40 CFR 63.7530 and Table 7; and/or by conducting CMS performance evaluations according to 40 CFR 63.7525 in conjunction with the stack test.

The performance test shall consist of 3 separate test runs and each test run shall last a minimum of 1 hour and shall be conducted during normal operations. The percent load of the boiler maintained during the performance test shall be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load and the estimated percent load shall be included in the notification of compliance.

The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

Method 1, Appendix A, Part 60 to select the sampling ports locations and number of traverse points;

Method 2, 2F, or 2G, Appendix A, Part 60 to determine the velocity and volumetric flow-rate of the stack gases;

Method 3A or 3B, Appendix A, Part 60, or other method allowed per Table 5 of the Subpart to determine the oxygen and/or carbon dioxide concentrations, excess air, and dry molecular weight of the stack gases;

Method 4, Appendix A, Part 60 to measure the moisture content of the stack gases;

Method 5 or 17 Appendix A, Part 60 for the particulate matter (PM) emission concentration (positive pressure fabric filters shall use Method 5D);

Method 10 Appendix A-4, Part 60 to measure the carbon monoxide (CO) emission concentration;

Method 26 or 26A, Appendix A, Part 60 to measure the hydrogen chloride (HCl) and chlorine emission concentrations;

Method 29, 30A, or 30B, Appendix A, Part 60 or Method 101A in Appendix B to Part 61 or other method allowed per Table 5 of the Subpart for the mercury (Hg) emission concentration;



Method 19 F-factor methodology, Appendix A to Part 60 to convert emissions concentration to pound per mmBtu emission rates; and

COMS data shall be reduced to 6-minute averages over the duration of the mass emission performance test, where compliance with the opacity limitation is met by using COMS data.

Sampling sites shall be located at after the control device and prior to any releases to the atmosphere.

[40 CFR 63.7510(a); and 40 CFR 63.7530(a) and (b)]

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

- a. The emission testing shall be conducted within 1 year of the expiration of this permit
- b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for PE and SO<sub>2</sub>.
- c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates:
  - i. PE: Methods 1-5 of 40 CFR, Part 60, Appendix A; and
  - ii. SO<sub>2</sub>: Methods 1-4 and 6C of 40 CFR, Part 60, Appendix A.

If applicable, alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA, Southwest District Office.

- d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Southwest District Office.

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, Southwest District Office. 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, Southwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, Southwest District Office 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 on 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, Southwest District Office 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, Southwest District Office.

- (3) Ongoing compliance with the SO2 emission limitations 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; and through demonstration of compliance with the quality assurance/quality control plan, which shall meet the testing and recertification requirements of 40 CFR Part 60.

[40 CFR 60.13] and [40 CFR Part 60, Appendices B & F]

- (4) The permittee shall comply with the applicable testing requirements required under 40 CFR 63, Subpart DDDDD, including the following sections:

	Applicable Rule	Requirement
a.	40 CFR 63.7515	Performance Tests, fuel analyses, or tune-ups
b.	40 CFR 63.7520	Stack Tests and Procedures
c.	40 CFR 63.7540	Demonstration of Continuous Compliance
d.	40 CFR 63, Subpart DDDDD, Table 5	Performance Testing Requirements

g) Miscellaneous Requirements

- (1) None.



**2. B002, BOILER #2**

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

54.35 mmBtu/hr [derated to 26.4 mmBtu/hr], coal-fired boiler #2, equipped with a baghouse

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.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 05-00219)	This emissions unit shall be equipped with a baghouse that will be monitored and maintained in accordance with the requirements of this permit.
b.	OAC rule 3745-17-10(C)(1) Figure I Curve P-1	0.30 lbs of particulate emissions (PE)/ mmBTU of actual heat input.  The emission limitation specified by this rule is less stringent than the limitation established pursuant to 40 CFR Part 63, Subpart DDDDD.
c.	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.  The visible emissions limitation specified in this rule is less stringent than the visible emissions limitation established pursuant to Part 63, Subpart DDDDD.
d.	OAC rule 3745-18-81	3.6 lbs of SO <sub>2</sub> /mmBtu of actual heat input
e.	OAC rule 3745-31-05(F)	The combined SO <sub>2</sub> emissions from emissions units B001 and B002 shall not exceed 1,095 tons per rolling 12-month period.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
f.	<p>40 CFR Part 63, Subpart DDDDD, the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR 63.7485 -7575) <u>Effective Date: January 31, 2013</u></p> <p><u>Compliance Date January 31, 2016 for existing sources.</u></p>	<p>The emissions from the boilers shall not exceed the following emission standards or the emissions limitations specified in Table 2 for existing units:</p> <p>HCl emissions must not exceed: 2.2E-02 lb per MMBtu of heat input;</p> <p>Mercury emissions must not exceed: 5.7 E-06 lb per MMBtu of heat input;</p> <p>Filterable PM emissions must not exceed: 4.0E-02 lb per MMBtu of heat input; or 5.3 E-05 lb per MMBtu of heat input;</p> <p>CO emissions must not exceed: 160 ppmv on a dry basis corrected to 3% O<sub>2</sub>, 3- run average; or if using CEMS: 340 ppmv on a dry basis corrected to 3% O<sub>2</sub>, 30-day rolling average;</p> <p>OR output limits (option)</p> <p>HCl emissions must not exceed: or 2.5 lb per MMBtu of steam output; or 0.27 lb per MWh.</p> <p>Mercury emissions must not exceed: or 6.4 E-06 lb per MMBtu of steam output; or 7.3E-05 lb per MWh.</p> <p>Filterable PM emissions must not exceed: or 4.2E-02 lb per MMBtu of steam output; or 4.9E-01 lb per MWh; or 5.6E-05 lb per MMBtu of steam output; or 6.5E-04 lb per MWh.</p> <p>CO emissions must not exceed: or 0.14 lb per MMBTU of steam output; or 1.7 lb per MWh, 3 run average.</p>
h.	40 CFR Part 63, Subpart DDDDD Table 10	The applicability of the General Provision in Part 63 Subpart A to boilers subject to Subpart DDDDD are identified in Table 10 to the subpart.



(2) Additional Terms and Conditions

a. Pursuant to OAC rule 3745-17-10, the total heat input for this emissions unit has been derated from 54.35 mmBtu/hr to 26.04 mmBtu/hr. The derated total heat input of 26.04 mmBtu/hr corresponds to a steam load of 37,000 pounds per hour. Using the derated total heat input, the allowable particulate emissions rate for this emissions unit, from Figure I of OAC rule 3745-17-10, is 0.27 pound per mmBtu actual heat input.

b. The permittee shall develop and maintain a written quality assurance/quality control plan designed to ensure continuous valid and representative readings of SO<sub>2</sub> emissions from the continuous monitor(s), in units of the applicable standard(s). The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous SO<sub>2</sub> monitoring system must be kept on site and available for inspection during regular office hours.

The plan shall include the requirement to conduct quarterly cylinder gas audits or relative accuracy audits as required in 40 CFR Part 60; and to conduct relative accuracy test audits in units of the standard(s), in accordance with and at the frequencies required per 40 CFR Part 60.

[40 CFR 60.13] and [40 CFR Part 60, Appendix F].

c. The continuous emission monitoring system consists of all the equipment used to acquire data to provide a record of emissions and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.

[40 CFR 60.2] and/or [40 CFR 63.2] and [Appendix F to 40 CFR Part 60]

d. The emissions from this emissions unit shall be vented to the baghouse at all times the emissions unit is in operation.

[OAC rule 3745-77-07(A)(1)]

e. Pursuant to 40 CFR 64.2 (b), CAM will not apply to the MACT emission limitations or standards in 40 CFR Part 63, Subpart DDDDD, after the compliance date in that rule.

[Authority for term: 40 CFR Part 64]

f. The permittee shall comply with the applicable requirements required under 40 CFR Part 63, Subpart DDDDD, including the following sections:

	Applicable Rule	Requirement
i.	40 CFR 63.7500)	Emission Limitations, Work Practice Standards, and Operating Limits
ii..	40 CFR 63.7510	Initial Compliance Requirements
iii..	40 CFR 63 Subpart	Emission Limits for Existing Boilers and Process



Applicable Rule	Requirement
DDDDD, Table 2	Heaters

c) Operational Restrictions

- (1) At no time shall the steam flow rate from this emissions unit exceed 41,400 pounds per hour (as an hourly average).

[OAC rule 3745-31-05(A)(3)].

- (2) In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the acceptable range established for the pressure drop across the baghouse is between 0.5 to 8.0 inches of water.

[OAC rule 3745-31-05(A)(3)]

- (3) The permittee shall comply with the applicable operational requirements required under 40 CFR Part 63, Subpart DDDDD, including the following sections:

	Applicable Rule	Requirement
a.	40 CFR 63.7525	Monitoring, Installation, Operation, and Maintenance Requirements
b.	40 CFR 63 Subpart DDDDD, Table 3	Work Practice Standards
c.	40 CFR 63 Subpart DDDDD, Table 4	Operating Limits for Boilers and Process Heaters

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit is in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on daily basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.

Whenever the monitored value for the pressure drop deviates from the limit or range established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

- a. the date and time the deviation began;
- b. the magnitude of the deviation at that time;
- c. the date the investigation was conducted;



- d. the name(s) of the personnel who conducted the investigation; and
- e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

- f. a description of the corrective action;
- g. the date corrective action was completed;
- h. the date and time the deviation ended;
- i. the total period of time (in minutes) during which there was a deviation;
- j. the pressure drop readings immediately after the corrective action was implemented; and
- k. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

This range or limit on the pressure drop across the baghouse is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the permitted limit or range for the pressure drop based upon information obtained during future testing that demonstrate compliance with the allowable particulate emission rate for the controlled emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a PTI review and modification of the Title V permit.

[OAC rule 3745-31-05(A)(3)] and [OAC rule 3745-77-07(C)(1)].

- (2) The permittee shall continuously monitor and record the steam flow rate, in pounds/hr, from this emissions unit. Copies of all steam flow rate charts shall be maintained for a period of 5 years, and shall be made available to the Director (the Ohio EPA, Southwest District Office) upon verbal or written request.

[OAC rule 3745-31-05(A)(3)] and [OAC rule 3745-77-07(C)(1)].

- (3) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be



noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned frequencies for performing the visible emissions checks if operating experience indicates that less frequent visible emissions checks would be sufficient to ensure compliance with the above-mentioned applicable requirements.

[OAC rule 3745-17-07(A)] or [OAC rule 3745-77-07(A)(3)]

- (4) The permittee shall maintain on-site, the document of certification received from the U.S. EPA or the Ohio EPA's Central Office documenting that the continuous SO<sub>2</sub> monitoring system has been certified to meet the requirements of 40 CFR 60, Appendix B, Performance Specification 2. The letter/document of certification shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

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

- (5) The permittee shall install, operate, and maintain equipment to continuously monitor and record SO<sub>2</sub> emissions from this emissions unit in units of the applicable standard(s). 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 SO<sub>2</sub> monitoring system including, but not limited to:



- a. emissions of SO<sub>2</sub> in parts per million on an instantaneous (one-minute) basis;
- b. emissions of SO<sub>2</sub> in all units of the applicable standard(s), in pounds emitted per million BTU's of actual heat input;
- c. the monthly (for B001 and B002, combined) emission rates of sulfur dioxide, in tons;
- d. the combined rolling 12-month (for B001 and B002, combined) emission rates of sulfur dioxide, in tons;
- e. results of quarterly cylinder gas audits;
- f. results of daily zero/span calibration checks and the magnitude of manual calibration adjustments;
- g. results of required relative accuracy test audit(s), including results in units of the applicable standard(s);
- h. hours of operation of the emissions unit, continuous SO<sub>2</sub> monitoring system, and control equipment;
- i. the date, time, and hours of operation of the emissions unit without the control equipment and/or the continuous SO<sub>2</sub> monitoring system;
- j. the date, time, and hours of operation of the emissions unit during any malfunction of the control equipment and/or the continuous SO<sub>2</sub> monitoring system; as well as,
- k. the reason (if known) and the corrective actions taken (if any) for each such event in (g) and (h).

[40 CFR 60.13] and [40 CFR Part 60, Appendices B & F]

- (6) The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR Part 63 Subpart DDDDD, including the following sections:

	Applicable Rule	Requirement
a.	40 CFR 63.7521	Fuel Analyses, fuel specification, and procedures
b.	40 CFR 63.7522	Emissions Averaging
c.	40 CFR 63.7525	Monitoring, Installation, Operation, and Maintenance Requirements
d.	40 CFR 63.7530	Initial Compliance Demonstration
e.	40 CFR 63.7535	Minimum Amount of Monitoring Data
f.	40 CFR 63.7540 & 7541	Ongoing Compliance Demonstration
g.	40 CFR 63 Subpart DDDDD, Table 6	Fuel Analysis Requirements
h.	40 CFR 63 Subpart DDDDD, Table 7	Establishing Operating Limits



	Applicable Rule	Requirement
e.	40 CFR 63 Subpart DDDD, Table 8	Demonstrating Continuous Compliance

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports that identify the following information concerning the operation of the baghouse during the operation of the emissions unit(s):

- a. each period of time (start time and date, and end time and date) when the pressure drop across the baghouse was outside of the acceptable range;
- b. any period of time (start time and date, and end time and date) when the emissions unit(s) was/were in operation and the process emissions were not vented to the baghouse;
- c. each incident of deviation described in section “(1)a” (above) where a prompt investigation was not conducted;
- d. each incident of deviation described in section “(1)a” where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken;
- e. each incident of deviation described in section “(1)a” where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit;

[OAC rule 3745-15-03(B)(1)(a) and OAC rule 3745-15-03(C); and OAC rule 3745-77-07(C)(1)]

(2) If for any reason the steam flow rate from this emissions unit exceeded 41,400 pounds per hour, the following information shall be reported within 5 business days after the exceedance occurs:

- a. the date of the exceedance;
- b. the time interval over which the exceedance occurred;
- c. the value of the exceedance;
- d. the cause(s) of the exceedance;
- e. the corrective action which has been or will be taken to prevent similar exceedances in the future; and
- f. a copy of the steam chart which shows the exceedance.
- g. These quarterly reports shall be submitted by February 15, May 15, August 15 and November 15 of each year, unless otherwise specified by the appropriate



Ohio EPA District Office or local air agency, and shall cover the coal shipments received during the previous calendar quarters.

[Authority for term 3745-77-07(A)(3)(c), 3745-15-03(B)(1)(a), and 3745-15-03(C)]

- (3) The permittee shall submit semiannual written reports that identify:
- a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
  - b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]

- (4) The permittee shall comply with the following quarterly reporting requirements for the emissions unit and its continuous SO<sub>2</sub> monitoring system:
- a. Pursuant to the monitoring, record keeping, and reporting requirements for continuous monitoring systems 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 SO<sub>2</sub> emissions in excess of any applicable limit specified in this permit, 40 CFR Part 60, OAC Chapter 3745-18, and any other applicable rules or regulations. The report shall document the date, commencement and completion times, duration, and magnitude of each exceedance, as well as the reason (if known) and the corrective actions taken (if any) for each exceedance. Excess emissions shall be reported in units of the applicable standard(s).
  - 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 SO<sub>2</sub> and other associated monitors;
    - iii. a description of any change in the equipment that comprises the continuous emission monitoring system (CEMS), including any change to the hardware, changes to the software that may affect CEMS readings, and/or changes in the location of the CEMS 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 SO2 emissions for the calendar quarter (tons), based on SO2 continuous monitoring data;
- vi. the combined total SO2 emissions for emissions unit B001 and B002 in tons per rolling 12 month period;
- vii. the total operating time (hours) of the emissions unit;
- viii. the total operating time of the continuous SO2 monitoring system while the emissions unit was in operation;
- ix. results and dates of quarterly cylinder gas audits;
- x. unless previously submitted, results and dates of the relative accuracy test audit(s), including results in units of the applicable standard(s), (during appropriate quarter(s));
- xi. unless previously submitted, the results of any relative accuracy test audit showing the continuous SO2 monitor out-of-control and the compliant results following any corrective actions;
- xii. the date, time, and duration of any/each malfunction\*\* of the continuous SO2 monitoring system, emissions unit, and/or control equipment;
- xiii. the date, time, and duration of any downtime\*\* of the continuous SO2 monitoring system and/or control equipment while the emissions unit was in operation; and
- xiv. the reason (if known) and the corrective actions taken (if any) for each event in (xii) and (xiii).

Each report shall address the operations conducted and data obtained during the previous calendar quarter.

\* where no excess emissions have 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 EER quarterly report

\*\* each downtime and malfunction event shall be reported regardless if there is an exceedance of any applicable limit

[40 CFR 60.7]

- (5) The permittee shall comply with the applicable reporting requirements required under 40 CFR 63, Subpart DDDDD, including the following sections:

	Applicable Rule	Requirement
a.	40 CFR 63.7545	Notifications
b.	40 CFR 63.7550	Reporting
c.	40 CFR 63, Subpart	Reporting Requirements



	Applicable Rule	Requirement
	DDDDD, Table 9	

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:

0.30 lbs of PE/ mmBTU of actual heat input.

The above allowable is based on the following equation  $E=0.8 \times H-0.3010$

Where:

E= Pounds of emissions per million BTU actual heat input; and

H = Total Heat Input, millions of BTU per hour.

Applicable Compliance Method:

The permittee shall demonstrate compliance with the emission limitation above based upon the results of stack testing conducted in accordance with Methods 1 through 5 of 40 CFR, Part 60, Appendix A.

b. Emission Limitation

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

Applicable Compliance Method

If required, compliance shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9.

[OAC rule 3745-17-03(B)(1)(a)]

c. Emission Limitation:

3.6 lbs of SO<sub>2</sub>/mmBtu of actual heat input

Applicable Compliance Method:

The permittee shall demonstrate compliance with the emission limitation above through the record keeping requirements in section d)(5) above.



d. Emission Limitation

1,095 tons of SO<sub>2</sub> per rolling 12-month period (for B001 and B002, combined)

Applicable Compliance Method:

The permittee shall demonstrate compliance with the emission limitation above through the record keeping requirements in section d)(5) above.

e. Emission Limitation

The emissions from the boilers shall not exceed the following emission standards or the emissions limitations specified in Table 2 for existing units:

HCl emissions must not exceed:

2.2E-02 lb per MMBtu of heat input;

Mercury emissions must not exceed:

5.7 E-06 lb per MMBtu of heat input;

Filterable PM emissions must not exceed:

4.0E-02 lb per MMBtu of heat input;

or 5.3 E-05 lb per MMBtu of heat input;

CO emissions must not exceed:

160 ppmv on a dry basis corrected to 3% O<sub>2</sub>, 3- run average;

or if using CEMS: 340 ppmv on a dry basis corrected to 3% O<sub>2</sub>, 30-day rolling average;

OR output limits (option)

HCl emissions must not exceed:

or 2.5 lb per MMBtu of steam output;

or 0.27 lb per MWh.

Mercury emissions must not exceed:

or 6.4 E-06 lb per MMBtu of steam output;

or 7.3E-05 lb per MWh.

Filterable PM emissions must not exceed:

or 4.2E-02 lb per MMBtu of steam output;

or 4.9E-01 lb per MWh;

or 5.6E-05 lb per MMBtu of steam output;

or 6.5E-04 lb per MWh.

CO emissions must not exceed:

or 0.14 lb per MMBTU of steam output;

or 1.7 lb per MWh, 3 run average.



Applicable Compliance Method:

The permittee shall conduct an initial performance test within 180 days after the compliance date to demonstrate compliance with the limitations in the NESHAP. Initial compliance with 40 CFR Part 63, Subpart DDDDD shall be demonstrated through performance testing according to 40 CFR 63.7520 and Table 5; by conducting a fuel analysis for each type of fuel burned according to 40 CFR 63.7521 and Table 6; by establishing operating limits (Table 4) according to 40 CFR 63.7530 and Table 7; and/or by conducting CMS performance evaluations according to 40 CFR 63.7525 in conjunction with the stack test.

The performance test shall consist of 3 separate test runs and each test run shall last a minimum of 1 hour and shall be conducted during normal operations. The percent load of the boiler maintained during the performance test shall be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load and the estimated percent load shall be included in the notification of compliance.

The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

Method 1, Appendix A, Part 60 to select the sampling ports locations and number of traverse points;

Method 2, 2F, or 2G, Appendix A, Part 60 to determine the velocity and volumetric flow-rate of the stack gases;

Method 3A or 3B, Appendix A, Part 60, or other method allowed per Table 5 of the Subpart to determine the oxygen and/or carbon dioxide concentrations, excess air, and dry molecular weight of the stack gases;

Method 4, Appendix A, Part 60 to measure the moisture content of the stack gases;

Method 5 or 17 Appendix A, Part 60 for the particulate matter (PM) emission concentration (positive pressure fabric filters shall use Method 5D);

Method 10 Appendix A-4, Part 60 to measure the carbon monoxide (CO) emission concentration;

Method 26 or 26A, Appendix A, Part 60 to measure the hydrogen chloride (HCl) and chlorine emission concentrations;

Method 29, 30A, or 30B, Appendix A, Part 60 or Method 101A in Appendix B to Part 61 or other method allowed per Table 5 of the Subpart for the mercury (Hg) emission concentration;

Method 19 F-factor methodology, Appendix A to Part 60 to convert emissions concentration to pound per mmBtu emission rates; and



COMS data shall be reduced to 6-minute averages over the duration of the mass emission performance test, where compliance with the opacity limitation is met by using COMS data.

Sampling sites shall be located at after the control device and prior to any releases to the atmosphere.

[40 CFR 63.7510(a); and 40 CFR 63.7530(a) and (b)]

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

- a. The emission testing shall be conducted within 1 year of the expiration of this permit
- b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for PE and SO<sub>2</sub>.
- c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates:
  - i. PE: Methods 1-5 of 40 CFR, Part 60, Appendix A; and
  - ii. SO<sub>2</sub>: Methods 1-4 and 6C of 40 CFR, Part 60, Appendix A.

If applicable, alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA, Southwest District Office.

- d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Southwest District Office.

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, Southwest District Office. 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, Southwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, Southwest District Office 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 on 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, Southwest District Office 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, Southwest District Office.

- (3) Ongoing compliance with the SO<sub>2</sub> emission limitations 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; and through demonstration of compliance with the quality assurance/quality control plan, which shall meet the testing and recertification requirements of 40 CFR Part 60.

[40 CFR 60.13] and [40 CFR Part 60, Appendices B & F]

- (4) The permittee shall comply with the applicable testing requirements required under 40 CFR 63, Subpart DDDDD, including the following sections:

	Applicable Rule	Requirement
a.	40 CFR 63.7515	Performance Tests, fuel analyses, or tune-ups
b.	40 CFR 63.7520	Stack Tests and Procedures
c.	40 CFR 63.7540	Demonstration of Continuous Compliance
d.	40 CFR 63, Subpart DDDDD, Table 5	Performance Testing Requirements

g) Miscellaneous Requirements

- (1) None.