

**PART 70 OPERATING PERMIT
OFFICE OF AIR MANAGEMENT
and
VIGO COUNTY AIR POLLUTION CONTROL**

**Indiana State University
951 Sycamore Street
Terre Haute, Indiana 47809**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 and 326 IAC 2-1-3.2 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T167-7546-00010	
Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Management	Issuance Date:

SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM) and Vigo County Air Pollution Control (VCAPC). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

The Permittee owns and operates boilers and incinerators at a university.

Responsible Official: John W. Moore
Source Address: 951 Sycamore Street, Terre Haute, Indiana 47809
Mailing Address: 951 Sycamore Street, Terre Haute, Indiana 47809
SIC Code: 8221
County Location: Vigo County
County Status: Maintenance for Sulfur dioxide;
Attainment for all other criteria pollutants
Source Status: Part 70 Permit Program
Major Source, under PSD and Emission Offset Rules;
Minor Source, Section 112 of the Clean Air Act

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source consists of the following emission units and pollution control devices:

- (1) One (1) traveling grate type, coal fired boiler, identified as Boiler #2, with a maximum capacity of 56.25 MMBtu per hour, using a multicyclone and electrostatic precipitator as control, and exhausting to stack 001, which is equipped with a continuous opacity monitor.
- (2) One (1) traveling grate type, coal fired boiler, identified as Boiler #3, with a maximum capacity of 75.00 MMBtu per hour, using a multicyclone and electrostatic precipitator as control, and exhausting to stack 001, which is equipped with a continuous opacity monitor.
- (3) One (1) cyclone type, coal fired boiler, using natural gas and No. 2 fuel oil for backup, identified as Boiler #5, with a maximum capacity of 156.25 MMBtu per hour, using an electrostatic precipitator as control, and exhausting to stack 001, which is equipped with a continuous opacity monitor.
- (4) One (1) natural gas fired boiler, using No. 2 fuel oil for backup, identified as Boiler #4, with a maximum capacity of 93.75 MMBtu per hour, with no control, and exhausting to stack 002.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)]
[326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

- (1) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.
- (2) Science building incinerator with emissions below insignificant thresholds.

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [326 IAC 2-1-10] [IC 13]

- (a) Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7.
- (b) This prohibition shall not apply to alleged violations of applicable requirements for which the Commissioner has granted a permit shield in accordance with 326 IAC 2-1-3.2 or 326 IAC 2-7-15, as set out in this permit in the Section B condition entitled "Permit Shield."

B.2 Definitions [326 IAC 2-7-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, any applicable definitions found in IC 13-11, 326 IAC 1-2 and 326 IAC 2-7 shall prevail.

B.3 Permit Term [326 IAC 2-7-5(2)]

This permit is issued for a fixed term of five (5) years from the effective date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3.

B.4 Enforceability [326 IAC 2-7-7(a)]

- (a) All terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM and VCAPC.
- (b) Unless otherwise stated, terms and conditions of this permit, including any provisions to limit the source's potential to emit, are enforceable by the United States Environmental Protection Agency (U.S. EPA) and citizens under the Clean Air Act.
- (c) All terms and conditions in this permit that are local requirements, including any provisions designed to limit the source's potential to emit, are enforceable by VCAPC.

B.5 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.6 Severability [326 IAC 2-7-5(5)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.7 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

B.8 Duty to Supplement and Provide Information [326 IAC 2-7-4(b)] [326 IAC 2-7-5(6)(E)]

- (a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Vigo County Air Pollution Control
201 Cherry Street
Terre Haute, Indiana 47807

- (b) The Permittee shall furnish to IDEM, OAM, and VCAPC within a reasonable time, any information that IDEM, OAM, and VCAPC may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.
- (c) Upon request, the Permittee shall also furnish to IDEM, OAM and VCAPC, copies of records required to be kept by this permit. If the Permittee wishes to assert a claim of confidentiality over any of the furnished records, the Permittee must furnish such records to IDEM, OAM and VCAPC, along with a claim of confidentiality under 326 IAC 17. If requested by IDEM, OAM, VCAPC, or the U.S. EPA, to furnish copies of requested records directly to U.S. EPA, and the Permittee is making a claim of confidentiality regarding the furnished records, the Permittee must furnish such confidential records directly to the U.S. EPA along with a claim of confidentiality under 40 CFR 2, Subpart B.

B.9 Compliance with Permit Conditions [326 IAC 2-7-5(6)(A)] [326 IAC 2-7-5(6)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit constitutes a violation of the Clean Air Act and is grounds for:
- (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; or
 - (3) Denial of a permit renewal application.

- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

B.10 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)]

- (a) Any application form, report, or compliance certification submitted under this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification, and any other certification required under this permit, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, on the attached Certification Form, with each submittal.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

B.11 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The certification shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Vigo County Air Pollution Control
201 Cherry Street
Terre Haute, Indiana 47807

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, and VCAPC on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;

- (3) Whether compliance was based on continuous or intermittent data;
- (4) The methods used for determining compliance of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3);
- (5) Any insignificant activity that has been added without a permit revision; and
- (6) Such other facts, as specified in Sections D of this permit, as IDEM, OAM, and VCAPC may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

B.12 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)]
[326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) within ninety (90) days after issuance of this permit, including the following information on each:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission units and associated emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If due to circumstances beyond its control, the PMP cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Vigo County Air Pollution Control
201 Cherry Street
Terre Haute, Indiana 47807

- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that lack of proper maintenance does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) PMP's shall be submitted to IDEM, OAM, and VCAPC upon request and shall be subject to review and approval by IDEM, OAM, and VCAPC.

B.13 Emergency Provisions [326 IAC 2-7-16]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-7-16.

- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
 - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAM, and VCAPC within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

IDEM

Telephone Number: 1-800-451-6027 (ask for Office of Air Management, Compliance Section), or
Telephone Number: 317-233-5674 (ask for Compliance Section)
Facsimile Number: 317-233-5967

VCAPC

Telephone Number: 812-462-3433
Facsimile Number: 812-462-3447

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted notice, either in writing or facsimile, of the emergency to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

And

Vigo County Air Pollution Control
201 Cherry Street
Terre Haute, Indiana 47807

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions) for sources subject to this rule after the effective date of this rule. This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAM, and VCAPC may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4-(c)(9) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAM, and VCAPC by telephone or facsimile of an emergency lasting more than one (1) hour in compliance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value.

Any operation shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.14 Permit Shield [326 IAC 2-7-15]

- (a) This condition provides a permit shield as addressed in 326 IAC 2-7-15.

- (b) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits. Compliance with the conditions of this permit shall be deemed in compliance with any applicable requirements as of the date of permit issuance, provided that:
 - (1) The applicable requirements are included and specifically identified in this permit; or
 - (2) The permit contains an explicit determination or concise summary that other specifically identified requirements are not applicable.
- (c) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, including any term or condition from a previously issued construction or operation permit, IDEM, OAM and VCAPC, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (d) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application.
- (e) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
 - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (f) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (g) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAM and VCAPC, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (h) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAM and VCAPC, has issued the modification. [326 IAC 2-7-12(b)(8)]

B.15 Multiple Exceedances [326 IAC 2-7-5(1)(E)]

Any exceedance of a permit limitation or condition contained in this permit, which occurs contemporaneously with an exceedance of an associated surrogate or operating parameter established to detect or assure compliance with that limit or condition, both arising out of the same act or occurrence, shall constitute a single potential violation of this permit.

B.16 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Vigo County Air Pollution Control
201 Cherry Street
Terre Haute, Indiana 47807

within ten (10) calendar days from the date of the discovery of the deviation.

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:
- (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or
 - (2) An emergency as defined in 326 IAC 2-7-1(12); or
 - (3) Failure to implement elements of the Preventive Maintenance Plan unless lack of maintenance has caused or contributed to a deviation.
 - (4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred is a deviation.

- (c) Written notification shall be submitted on the attached Emergency/Deviation Occurrence Reporting Form or its substantial equivalent. The notification does not need to be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) Proper notice submittal under 326 IAC 2-7-16 satisfies the requirement of this subsection.

**B.17 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]**

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)]
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAM, and VCAPC determines any of the following:

- (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAM, and VCAPC to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAM, and VCAPC at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAM, and VCAPC may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.18 Permit Renewal [326 IAC 2-7-4]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAM, and VCAPC and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Vigo County Air Pollution Control
201 Cherry Street
Terre Haute, Indiana 47807

- (b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]
- (1) A timely renewal application is one that is:
 - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, and VCAPC on or before the date it is due. [326 IAC 2-5-3]

- (2) If IDEM, OAM, and VCAPC, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.
- (c) **Right to Operate After Application for Renewal** [326 IAC 2-7-3]
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAM, and VCAPC take final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAM, and VCAPC any additional information identified as being needed to process the application.
- (d) **United States Environmental Protection Agency Authority** [326 IAC 2-7-8(e)]
If IDEM, OAM, and VCAPC fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.

B.19 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

And

Vigo County Air Pollution Control
201 Cherry Street
Terre Haute, Indiana 47807

Any such application should be certified by the "responsible official" as defined by 326 IAC 2-7-1(34) only if a certification is required by the terms of the applicable rule

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.20 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)]
[326 IAC 2-7-12 (b)(2)]

- (a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.

- (b) Notwithstanding 326 IAC 2-7-12(b)(1)(D)(i) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.21 Changes Under Section 502(b)(10) of the Clean Air Act [326 IAC 2-7-20(b)]

The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a) and the following additional conditions:

- (a) For each such change, the required written notification shall include a brief description of the change within the source, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.
- (b) The permit shield, described in 326 IAC 2-7-15, shall not apply to any change made under 326 IAC 2-7-20(b).

B.22 Operational Flexibility [326 IAC 2-7-20]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any approval required by 326 IAC 2-1 has been obtained;
- (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Vigo County Air Pollution Control
201 Cherry Street
Terre Haute, Indiana 47807

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-7-20(b), (c), or (e) and makes such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAM, and VCAPC in the notices specified in 326 IAC 2-7-20(b), (c)(1), and (e)(2).

- (b) For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:
 - (1) A brief description of the change within the source;
 - (2) The date on which the change will occur;
 - (3) Any change in emissions; and
 - (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) Emission Trades [326 IAC 2-7-20(c)]

The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]

The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAM, VCAPC, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.23 Construction Permit Requirement [326 IAC 2]

Except as allowed by Indiana P.L. 130-1996 Section 12, as amended by P.L. 244-1997, modification, construction, or reconstruction shall be approved as required by and in accordance with 326 IAC 2.

B.24 Inspection and Entry [326 IAC 2-7-6(2)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, the Permittee shall allow IDEM, OAM, VCAPC, and U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
 - (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
 - (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
 - (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.
[326 IAC 2-7-6(6)]
- (1) The Permittee may assert a claim that, in the opinion of the Permittee, information removed or about to be removed from the source by IDEM, OAM and VCAPC, or an authorized representative, contains information that is confidential under IC 5-14-3-4(a). The claim shall be made in writing before or at the time the information is removed from the source. In the event that a claim of confidentiality is so asserted, neither IDEM, OAM and VCAPC, nor an authorized representative, may disclose the information unless and until IDEM, OAM and VCAPC, makes a determination under 326 IAC 17-1-7 through 326 IAC 17-1-9 that the information is not entitled to confidential treatment and that determination becomes final. [IC 5-14-3-4; IC 13-14-11-3; 326 IAC 17-1-7 through 326 IAC 17-1-9]
 - (2) The Permittee, IDEM, OAM and VCAPC, acknowledge that the federal law applies to claims of confidentiality made by the Permittee with regard to information removed or about to be removed from the source by U.S. EPA. [40 CFR Part 2, Subpart B]

B.25 Transfer of Ownership or Operation [326 IAC 2-1-6] [326 IAC 2-7-11]

Pursuant to 326 IAC 2-1-6 and 326 IAC 2-7-11:

- (a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAM, Permits Branch and VCAPC, within thirty (30) days of the change. Notification shall include a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the Permittee and the new owner.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by an administrative amendment pursuant to 326 IAC 2-7-11. The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) IDEM, OAM, and VCAPC shall reserve the right to issue a new permit.

B.26 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

- (a) The Permittee shall pay annual fees to IDEM, OAM, and VCAPC, within thirty (30) calendar days of receipt of a billing. If the Permittee does not receive a bill from IDEM, OAM and VCAPC the applicable fees are due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAM, Technical Support and Modeling Section), to determine the appropriate permit fee.

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-7-5(1)]

C.1 Major Source

Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21, this source is a major source.

C.2 Particulate Matter Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [326 IAC 6-3-2(c)]

Pursuant to 326 IAC 6-3-2(c), the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.

C.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.4 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.

C.5 Incineration [326 IAC 4-2][326 IAC 9-1-2]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2.

C.6 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

C.7 Operation of Equipment [326 IAC 2-7-6(6)]

All air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

C.8 Stack Height [326 IAC 1-7]

- (a) The Permittee shall comply with the provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.9 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
- (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

And

Vigo County Air Pollution Control
201 Cherry Street
Terre Haute, Indiana 47807

The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are mandatory for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Indiana Accredited Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

Testing Requirements [326 IAC 2-7-6(1)]

C.10 Performance Testing [326 IAC 3-6]

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing methods approved by IDEM, OAM.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Vigo County Air Pollution Control
201 Cherry Street
Terre Haute, Indiana 47807

no later than thirty-five (35) days prior to the intended test date. The Permittee shall submit a notice of the actual test date to the above addresses so that it is received at least two weeks prior to the test date.

- (b) All test reports must be received by IDEM, OAM within forty-five (45) days after the completion of the testing. An extension may be granted by the Commissioner, if the source submits to IDEM, OAM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

The documentation submitted by the Permittee does not require certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]

C.11 Compliance Schedule [326 IAC 2-7-6(3)]

The Permittee:

- (a) Has certified that all facilities at this source are in compliance with all applicable requirements; and
- (b) Has submitted a statement that the Permittee will continue to comply with such requirements; and
- (c) Will comply with such applicable requirements that become effective during the term of this permit.

C.12 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment, no more than ninety (90) days after receipt of this permit. If due to circumstances beyond its control, this schedule cannot be met, the Permittee may extend the compliance schedule an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Vigo County Air Pollution Control
201 Cherry Street
Terre Haute, Indiana 47807

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

C.13 Maintenance of Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

- (a) In the event that a breakdown of the monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less frequent than required in Section D of this permit until such time as the monitoring equipment is back in operation. In the case of continuous monitoring, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less than one (1) hour until such time as the continuous monitor is back in operation.
- (b) The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

C.14 Monitoring Methods [326 IAC 3]

Any monitoring or testing performed to meet the applicable requirements of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

C.15 Pressure Gauge Specifications

Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or

its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.

Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

C.16 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Vigo County Air Pollution Control
201 Cherry Street
Terre Haute, Indiana 47807

within ninety (90) days after the date of issuance of this permit.

The ERP does not require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

- (c) If the ERP is disapproved by IDEM, OAM, and VCAPC, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAM, and VCAPC, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.17 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present in a process in more than the threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall:

- (a) Submit:

- (1) A compliance schedule for meeting the requirements of 40 CFR 68 by the date provided in 40 CFR 68.10(a); or
 - (2) As a part of the compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and
 - (3) A verification to IDEM, OAM, and VCAPC that a RMP or a revised plan was prepared and submitted as required by 40 CFR 68.
- (b) Provide annual certification to IDEM, OAM, and VCAPC that the Risk Management Plan is being properly implemented.

All documents submitted pursuant to this condition shall include the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

C.18 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-7-5][326 IAC 2-7-6][326 IAC 1-6]

- (a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:
- (1) This condition;
 - (2) The Compliance Determination Requirements in Section D of this permit;
 - (3) The Compliance Monitoring Requirements in Section D of this permit;
 - (4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and
 - (5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP’s shall be submitted to IDEM, OAM and VCAPC upon request and shall be subject to review and approval by IDEM, OAM, and VCAPC. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of :
 - (A) Response steps that will be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and
 - (B) A time schedule for taking such response steps including a schedule for devising additional response steps for situations that may not have been predicted.

- (b) For each compliance monitoring condition of this permit, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the response steps within the time prescribed in the Compliance Response Plan, shall constitute a violation of the permit unless taking the response steps set forth in the Compliance Response Plan would be unreasonable.
- (c) After investigating the reason for the excursion, the Permittee is excused from taking further response steps for any of the following reasons:
 - (1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied or;
 - (3) An automatic measurement was taken when the process was not operating; or
 - (4) The process has already returned to operating within “normal” parameters and no response steps are required.
- (d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

C.19 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAM and VCAPC, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. IDEM, OAM and VCAPC shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAM and VCAPC within thirty (30) days of receipt of the notice of deficiency. IDEM, OAM and VCAPC reserves the authority to use enforcement activities to resolve noncompliant stack tests.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAM and VCAPC that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAM and VCAPC may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected facility.

The documents submitted pursuant to this condition do not require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.20 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)] [326 IAC 2-6]

- (a) The Permittee shall submit an annual emission statement, certified pursuant to the requirements of 326 IAC 2-6, that must be received by July 1 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:
- (1) Indicate actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);
 - (2) Indicate actual emissions of other regulated pollutants from the source, for purposes of Part 70 fee assessment.
- (b) The annual emission statement covers the twelve (12) consecutive month time period starting January 1 and ending December 31. The annual emission statement must be submitted to:
- Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015
- and
- Vigo County Air Pollution Control
201 Cherry Street
Terre Haute, Indiana 47807
- (c) The annual emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, and VCAPC on or before the date it is due.

C.21 Monitoring Data Availability [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)]

- (a) With the exception of performance tests conducted in accordance with Section C- Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.
- (b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.
- (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.
- (d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.

- (e) At its discretion, IDEM and VCAPC may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.
- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

C.22 General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6]

- (a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years and available upon request of an IDEM, OAM and VCAPC, representative. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner or VCAPC makes a written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or VCAPC within a reasonable time.
- (b) Records of required monitoring information shall include, where applicable:
 - (1) The date, place, and time of sampling or measurements;
 - (2) The dates analyses were performed;
 - (3) The company or entity performing the analyses;
 - (4) The analytic techniques or methods used;
 - (5) The results of such analyses; and
 - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include, where applicable:
 - (1) Copies of all reports required by this permit;
 - (2) All original strip chart recordings for continuous monitoring instrumentation;
 - (3) All calibration and maintenance records;
 - (4) Records of preventive maintenance shall be sufficient to demonstrate that improper maintenance did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.

- (d) All record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.23 General Reporting Requirements [326 IAC 2-7-5(3)(C)]

- (a) To affirm that the source has met all the compliance monitoring requirements stated in this permit the source shall submit a Quarterly Compliance Monitoring Report. Any deviation from the requirements and the date(s) of each deviation must be reported.
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Vigo County Air Pollution Control
201 Cherry Street
Terre Haute, Indiana 47807
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM and VCAPC, on or before the date it is due.
- (d) Unless otherwise specified in this permit, any quarterly report shall be submitted within thirty (30) days of the end of the reporting period.
- (e) All instances of deviations as described in Section B - Deviations from Permit Requirements Conditions must be clearly identified in such reports.
- (f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.
- (g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

The documents submitted pursuant to this condition do not require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

Stratospheric Ozone Protection

C.24 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- (b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)] One (1) traveling grate type, coal fired boiler, identified as Boiler #2, with a maximum capacity of 56.25 MMBtu per hour, using a multicyclone and electrostatic precipitator as control, and exhausting to stack 001, which is equipped with a continuous opacity monitor.

One (1) traveling grate type, coal fired boiler, identified as Boiler #3, with a maximum capacity of 75.00 MMBtu per hour, using a multicyclone and electrostatic precipitator as control, and exhausting to stack 001, which is equipped with a continuous opacity monitor.

One (1) cyclone type, coal fired boiler, using natural gas and No. 2 fuel oil for backup, identified as Boiler #5, with a maximum capacity of 156.25 MMBtu per hour, using an electrostatic precipitator as control, and exhausting to stack 001, which is equipped with a continuous opacity monitor.

One (1) natural gas fired boiler, using No. 2 fuel oil for backup, identified as Boiler #4, with a maximum capacity of 93.75 MMBtu per hour, with no control, and exhausting to stack 002.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 Sulfur Dioxide (SO₂) [326 IAC 7-4-3]

Pursuant to 326 IAC 7-4 (SO₂ Emissions Limitations) the SO₂ emissions from Boilers #2, #3 and #5 shall not exceed 5.64 pounds per MMBtu heat input for each boiler, and the SO₂ emissions from Boiler #4 shall not exceed 0.37 pounds per MMBtu heat input.

D.1.2 Particulate Matter (PM) [326 IAC 6-1-13]

- (a) Boiler #2 shall be limited to 0.35 pounds per MMBtu, which is equivalent to 19.69 pounds per hour and 86.24 tons per year;
- (b) Boiler #3 shall be limited to 0.35 pounds per MMBtu, which is equivalent to 26.25 pounds per hour and 114.98 tons per year;
- (c) Boiler #4 shall be limited to 0.15 pounds per MMBtu and 57.5 tons per year (13.12 pounds per hour);

- (d) Boiler #5 shall be limited to 0.35 pounds per MMBtu and 232.4 tons per year (53.06 pounds per hour).

D.1.3 Boiler Requirements

- (a) Boilers #2 and #3 shall at no time operate simultaneously with Boiler #5.
- (b) Boiler #5 is limited to 6,177 hours of operation while using coal for fuel.

D.1.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and control devices.

Compliance Determination Requirements

D.1.5 Testing Requirements [326 IAC 2-7-6(1),(6)]

- (a) For Boiler #5, during the period between 6 and 12 months after issuance of this permit, the Permittee shall perform PM and PM-10 testing utilizing Methods 5 or 17 (40 CFR 60, Appendix A) for PM and Methods 201 or 201A and 202 (40 CFR 51, Appendix M) for PM-10, and SO₂ testing utilizing Method 6, or other methods as approved by the Commissioner, while burning coal. This test shall be repeated at least once every two and a half (2.5) years from the date of this valid compliance demonstration. PM-10 includes filterable and condensible PM-10. In addition to these requirements, IDEM and VCAPC may require compliance testing when necessary to determine if the facility is in compliance.
- (b) For Boiler #2 and #3, during the period between 6 and 12 months after issuance of this permit, the Permittee shall perform PM and PM-10 testing utilizing Methods 5 or 17 (40 CFR 60, Appendix A) for PM and Methods 201 or 201A and 202 (40 CFR 51, Appendix M) for PM-10, and SO₂ testing utilizing Method 6, or other methods as approved by the Commissioner, while burning coal. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM-10 includes filterable and condensible PM-10. In addition to these requirements, IDEM and VCAPC may require compliance testing when necessary to determine if the facility is in compliance.

D.1.6 Continuous Opacity Monitor

The continuous Opacity Monitor (COM) associated with stack 001, shall be in operation at all times that Boiler #2, #3 or Boiler #5 are in operation. The COM shall be equipped with an alarm that will sound when opacity reaches 25%. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps that will be implemented when the alarm sounds, to keep the opacity below the limit of 30%.

D.1.7 Control Equipment

- (a) The cyclone controlling PM emissions from Boiler #2 shall be in operation at all times that Boiler #2 is in operation.
- (b) The cyclone controlling PM emissions from Boiler #3 shall be in operation at all times that Boiler #3 is in operation.
- (c) The electrostatic precipitator controlling PM emissions from Boilers #2, #3 and #5 shall be in operation at all times that Boilers #2, and #3, or Boiler #5 are in operation.

D.1.8 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 2-7-5(3)(A)] [326 IAC 2-7-6]

Pursuant to 326 IAC 7-2, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed 5.64 pounds per million BTU heat input. Compliance shall be determined utilizing one of the following options:

- (a) Coal sampling and analysis shall be performed using one of the following procedures:
 - (1) Minimum Coal Sampling Requirements and Analysis Methods [326 IAC 3-7-2(b)(3)]:
 - (A) The coal sample acquisition point shall be at a location where representative samples of the total coal flow to be combusted by the facility or facilities may be obtained. A single as-bunkered or as-burned sampling station may be used to represent the coal to be combusted by multiple facilities using the same stockpile feed system;
 - (B) Coal shall be sampled at least three (3) times per day and at least one (1) time per eight (8) hour period unless no coal is bunkered during the preceding eight (8) hour period;
 - (C) Minimum sample size shall be five hundred (500) grams;
 - (D) Samples shall be composited and analyzed at the end of each calendar month;
 - (E) Preparation of the coal sample, heat content analysis, and sulfur content analysis shall be determined pursuant to 326 IAC 3-7-2(c), (d), (e); or
 - (2) Sample and analyze the coal pursuant to 326 IAC 3-7-2(a);
 - (3) Sample and analyze the coal pursuant to 326 IAC 3-7-3; or
- (b) Upon written notification to IDEM and VCAPC by a facility owner or operator, continuous emission monitoring data collected and reported pursuant to 326 IAC 3-5-1 may be used as the means for determining compliance with the emission limitations in 326 IAC 7-2. Upon such notification, the other requirements of 326 IAC 7-2 shall not apply. [326 IAC 7-2-1(e)]
- (c) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the boiler, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6, which is conducted with such frequency as to generate the amount of information required by (a) or (b) above. [326 IAC 7-2-1(b)]

A determination of noncompliance pursuant to any of the methods specified in (a), (b), or (c) above shall not be refuted by evidence of compliance pursuant to the other method.

- (d) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the No. 2 fuel oil sulfur content does not exceed thirty six hundredths of a percent (0.36%) by weight, using one of the following options:
 - (1) Providing vendor analysis of fuel oil delivered, if accompanied by a certification;

- (2) Analyzing the oil sample to determine the sulfur content and heating value of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
 - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.1.9 Visible Emissions Notations

- (a) Daily visible emission notations of Boiler #4 stack exhaust shall be performed during normal daylight operations when using No. 2 fuel oil. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

D.1.10 Parametric Monitoring

The Permittee shall record the total static pressure drop across the cyclones used in conjunction with Boiler #2, and Boiler #3, and the spark rate, primary and secondary AC voltage and amperage for the electrostatic precipitator used in conjunction with Boilers #2, #3 and #5, at least once every four hours when the boilers are in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the cyclone used in conjunction with Boiler #2 shall be maintained within the range specified in the Preventive Maintenance Plan, the cyclone used in conjunction with Boiler #3 shall be maintained within the range specified in the Preventive Maintenance Plan, and for the electrostatic precipitator used in conjunction with Boilers #2, #3 and #5, the spark rate, the primary and secondary AC voltages, and the primary and secondary AC amperages shall all be maintained within the ranges specified in the Preventive Maintenance Plan, or at ranges established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAM, and VCAPC and shall be calibrated at least once every six (6) months.

D.1.11 Continuous Opacity Monitor - Performance [326 IAC 3-5-2]

- (a) Performance specifications set forth in 40 CFR 60 Appendix B, shall be used to certify monitoring equipment installed pursuant to this rule; however, where reference is made to the administrator in 40 CFR 60, Appendix B, the term “department” shall be inserted for purposes of this rule.
- (b) The cycling time for the opacity monitor shall not exceed ten (10) seconds. The cycling time is the total time a monitoring system requires to sample, analyze, and record an emission measurement.
- (c) Since the two boilers (PD001 and PD002) share an exhaust stack, the Permittee may either:
 - (1) install a continuous opacity monitoring system on the combine effluent; or
 - (2) install a continuous opacity monitoring system comprised of, and capable of combining the signals from, component transmissometers on each effluent stream.
- (d) Instrument full-scale response or upper limit of concentration measurement range for all opacity monitoring systems shall be set at one hundred percent (100%) opacity if possible.
- (e) Locations for installing continuous monitoring systems or monitoring devices that vary from locations provided under the performance specifications of 40 CFR 60, Appendix B, shall be approved by the IDEM, OAM, VCAPC, and the US EPA upon a demonstration by the owner or operator that installation at alternative locations will enable accurate and representative measurements.
- (f) Owners or operators of affected facilities shall conduct continuous emission monitoring system performance evaluations, upon the request of the IDEM, OAM and VCAPC, to demonstrate continuing compliance of the continuous emission monitoring systems according to the specifications in 326 IAC 3-5-2(7)(A), (B) and (C).

D.1.12 Continuous Opacity Monitor - Certification [326 IAC 3-5-3]

- (a) The owner or operator shall conduct the applicable performance specifications tests in accordance with the procedures specified in 40 CFR 60, or other applicable federal regulations, for the required monitoring system as follows:
 - (1) Not later than one hundred eighty (180) days after a facility start-up or initial monitor installation date.
 - (2) Not later than forty-five (45) unit operating days after monitor replacement date, or significant monitor repair as described in IDEM’s Quality Assurance Manual, Chapter 20 (dated June 20, 1997), which affects the ability of the analyzer to function date.
- (b) No less than fourteen (14) days in advance of the start of continuous opacity monitor (COM) certification the Permittee shall notify the IDEM, OAM and VCAPC.
- (c) The Permittee shall submit all the required test data and information in the form of a written report to the IDEM, OAM and VCAPC for review and approval within forty-five (45) days of completion of the performance specification test.
- (d) The IDEM, OAM and VCAPC shall issue a written notice of certification status upon review of the compliance certification test report. A required monitoring system is certified when the department issues a certification letter stating that the applicable components, has satisfactorily met all federal and state monitoring requirements.

- (e) The IDEM, OAM and VCAPC may decertify a required monitoring system if an audit or performance evaluation reveals that such monitoring system or a component thereof does not meet applicable performance specifications or requirements. The owner or operator shall repeat the certification process for the required monitoring system within forty-five (45) days of the date of the department's decertification of the required monitoring system.

D.1.13 Continuous Opacity Monitor - Standard Operating Procedures [326 IAC 3-5-4]

- (a) The Permittee shall submit to the IDEM, OAM and VCAPC a complete, written continuous monitoring standard operating procedures (SOP) within ninety (90) days after monitor installation. If revisions are made to the SOP, updates shall be submitted to IDEM, OAM and VCAPC biennially. As a minimum the SOP shall contain complete step-by-step procedures as outlined in 326 IAC 3-5-4(a)(1) through (10).
- (b) If the Permittee fails to submit, or submits an SOP that fails to address the factors provided in (a) above, then IDEM, OAM and VCAPC may require a performance evaluation.

D.1.14 Continuous Opacity Monitor - Quality Assurance Requirements [326 IAC 3-5-5]

- (a) For calibration drift (CD) assessment, the COMS shall be checked at least once daily. The CD shall be quantified and recorded at zero (0) (or low level) and upscale level opacity. The COMS shall be adjusted whenever the CD exceeds the specification of 40 CFR 60, Appendix B, Performance Specification 1 (PS-1), and the COMS shall be declared out of control when the CD exceeds twice the specification of PS-1. Corrective actions, followed by a validating CD assessment, are required when the COMS is out of control.
- (b) For fault indicators assessment, the fault lamp indicators, data acquisition system error messages, and other system self-diagnostic indicators shall be checked at least daily. Appropriate corrective actions shall be taken when the COMS is operating outside the preset limits.
- (c) For performance audits, checks of the individual COMS components and factors affecting the accuracy of the monitoring data, as described in this subdivision, shall be conducted, at a minimum, on a calendar quarter basis. The absolute minimum checks included in the performance audit are as follows:
 - (1) The status of the optical alignment of the monitor components shall be checked and recorded according to the procedure specified by the monitor manufacturer. Monitor components must be realigned as necessary.
 - (2) The apparent effluent opacity shall be compared and recorded before and after cleaning each of the exposed optical surfaces. The total optical surface dust accumulation shall be determined by summing up the apparent reductions in opacity for all of the optical surfaces that are cleaned. Caution must be employed in performing this check since fluctuations in effluent opacity occurring during the cleaning cycle may adversely affect the results.
 - (3) The zero (0) and upscale response errors shall be determined and recorded according to the CD procedures. The errors are defined as the differences (in percent opacity) between the correct value and the observed value for the zero (0) and high level calibration checks.
 - (4) The value of the zero (0) compensation applied at the time of the audit shall be calculated as equivalent opacity, corrected to stack exit conditions, according to the procedures specified by the manufacturer. The compensation applied to the effluent recorded by the monitor system shall be recorded.
 - (5) The optical pathlength correction ratio (OPLR) shall be computed from the monitor pathlength and stack exit diameter and shall be compared, and the difference recorded, to

the monitor setup OPLR value. The stack exit correlation error shall be determined as the absolute value of the difference between the measured value and the corrected value, expressed as a percentage of the correct value.

- (6) A three-point calibration error test of the COMS shall be conducted. Three (3) neutral density filters meeting the requirements of PS-1 shall be placed in the COMS light beam path. The monitor response shall be independently recorded from the COMS permanent data recorder. Make a total of five (5) nonconsecutive readings for each filter. The low-range, mid-range, and high-range calibration error results shall be computed as the mean difference and ninety-five percent (95%) confidence interval for the difference between the expected and the actual responses of the monitor as corrected to stack exit conditions. These values shall be calculated using the procedure of PS-1, Section 8.0. The following are requirements for these values:
- (A) The calibration error test required the installation of an external calibration audit device (zero-jig). The zero-jig shall be adjusted to provide the same zero (0) response as the monitor's simulated zero (0).
 - (B) Use calibration attenuators, that is, neutral density filters or screens, with values that have been determined according to PS-1, Section 7.1.3, "Attenuator Calibration", and produce simulated opacities (as corrected to stack exit conditions) in the ranges listed in Table 1-2 in PS-1.
 - (C) The stability of the attenuator values shall be checked at least once per year according to the procedures specified in PS-1. The attenuators shall be recalibrated if the stability checks indicate a change of 2% opacity or greater.

(d) The following are requirements for monitor acceptance criteria:

- (1) The following criteria are to be used for determining if the COMS audit results are acceptable:
- | | |
|-----------------------------------|---|
| Stack Exit Correlation Factor | # 2 percent |
| Zero and Upscale Responses | # 2 percent opacity |
| Zero Compensation | # 4 percent opacity |
| Optical Alignment | Misalignment error
2 percent opacity |
| Optical Surface Dust Accumulation | # 4 percent opacity |
| Calibration Error | # 3 percent opacity |
- (2) The COMS is out of control whenever the results of a quarterly performance audit indicate noncompliance with any of the performance assessment criteria above. If the COMS is out of control, the owner or operator must take the action necessary to eliminate the problem. Following corrective action, the source owner or operator must reconduct the appropriate failed portion of the audit and other applicable portions to determine whether the COMS is operating properly and within specifications. The COMS owner or operator shall record both audit results showing the COMS to be out of control and the results following the corrective action. COMS data obtained during any out of control period may not be used for compliance determination; the data may be used for identifying periods where there has been a failure to meet quality assurance and control criteria.
- (3) Repeated audit failures, that is, out of control conditions resulting from the quarterly audits, indicate that the QC procedures are inadequate or the COMS is incapable of providing quality data. The source owner or operator shall increase the frequency of the above QC procedures until the performance criteria are maintained or modify or replace the COMS whenever two (2) consecutive quarters of unacceptable performance occur.

- (e) The performance audit calculations contained in PSS-1

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.15 Record Keeping Requirements

- (a) To document compliance with Conditions D.1.1 and D.1.2, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the Particulate Matter (PM) and Sulfur Dioxide (SO₂) emission limits established in Condition D.1.1 and D.1.2.
- (1) Calendar dates covered in the compliance determination period;
 - (2) Actual coal usage since last compliance determination period;
 - (3) Sulfur content, heat content, and ash content (as received basis);
 - (4) Sulfur Dioxide emission rates;
- (b) Pursuant to 326 IAC 3-7-5(a), owners or operators of sources with total coal-fired capacity greater than or equal to one hundred (100) million BTU per hour actual heat input shall develop a standard operating procedure (SOP) to be followed for sampling, handling, analysis, quality control, quality assurance, and data reporting of the information collected pursuant to 326 IAC 3-7-2 through 326 IAC 3-7-4. In addition, any revision to the SOP shall be submitted to IDEM, OAM and VCAPC.
- The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.
- (c) To document compliance with Condition D.1.6, the Permittee shall maintain records of six-minute average, and instantaneous opacity readings from the COM associated with stack 001.
- (d) To document compliance with Condition D.1.9, the Permittee shall maintain records of visible emission notations from stack 002, when Boiler #4 is burning No. 2 fuel oil.
- (e) To document compliance with Condition D.1.10, the Permittee shall maintain records of pressure drop readings across each cyclone, ESP spark rate, ESP primary and secondary AC voltage, and ESP amperage. These records shall also contain the date and time the observation was recorded.
- (f) To document compliance with Conditions D.1.10, D.1.11, D.1.12, and D.1.13, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be complete and sufficient to establish compliance with the monitoring requirements established in Conditions D.1.10, D.1.11, D.1.12, and D.1.13.
- (1) On and after the certification of a monitoring system, the owner or operator of a source subject to this rule shall maintain records, including raw data, of all monitoring data and supporting information for a minimum of five (5) years from the date of the following:
 - (A) A monitoring sample.
 - (B) A measurement.
 - (C) A test.
 - (D) A certification.
 - (E) A report.
 - (F) Any other activity required under this article.

- (2) The records described in subsection (a) shall include the following:
 - (A) All documentation relating to:
 - (i) design, installation, and testing of all elements of the monitoring system; and
 - (ii) required corrective action or compliance plan activities.
 - (B) All maintenance logs, calibration checks, and other required quality assurance activities.
 - (C) All records of corrective and preventive action.
 - (D) A log of plant operations, including the following:
 - (i) Date of facility downtime.
 - (ii) Time of commencement and completion of each downtime.
 - (iii) reason for each downtime.
 - (3) The owner or operator of a source subject to this rule shall maintain the records required by this section at the source, or at such other site, in a manner so that they may be inspected by the IDEM, OAM, VCAPC or the US EPA, if so requested or required.
- (g) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.16 Reporting Requirements - General

- (a) A quarterly summary of the information to document compliance with Condition D.1.1 shall be submitted to the addresses listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.
- (b) To document fuel usage for Boiler #4, the Natural Gas Boiler Certification located at the end of this permit shall be submitted to the addresses listed in Section C - General Reporting Requirements, within thirty (30) days after the end of the quarter being reported.
- (c) To document compliance with Condition D.1.6, the Permittee shall, on a monthly basis, submit COM reports for any period during which opacity readings exceeded 30%, to the addresses listed in Section C - General Reporting Requirements, with thirty (30) days after the end of the month being reported.

D.1.17 Reporting Requirements - COM audits [326 IAC 3-5-5(e)]

Pursuant to 326 IAC 3-5-5(e) reporting requirements for performance audits on the continuous opacity monitoring system are as follows:

- (a) Owners or operators of facilities required to conduct continuous opacity monitor calibration error audits on continuous emission monitors shall prepare a written report of the results of the performance audit for each calendar quarter. Quarterly reports shall be submitted to the IDEM, OAM and VCAPC within thirty (30) calendar days after the end of each quarter.
- (b) The performance audit report shall contain the following information:
 - (1) Plant and monitor information, including the following:
 - (A) The plant name and address.
 - (B) The monitor brand, model, and serial number.
 - (C) The monitor span.
 - (D) The monitor location, for example, duct, boiler, unit, or stack designation.

- (2) Performance audit information, including the following:
 - (A) The auditor's name.
 - (B) A copy of the audit standard's certification, for example, the vendor's Protocol 1 certification, or neutral density filter certification.
 - (C) All data used to calculate the audit results.
 - (D) The audit results and an indication if the monitor passed or failed the audit. If the performance audit results show the CEMS or COMS to be out of control, the CEMS or COMS owner or operator must report both the audit results showing the CEMS or COMS to be out of control and the results of the audit following the corrective action showing the COMS to be operating within specification.
 - (E) Any corrective actions performed as the result of a failed audit.

D.1.18 Reporting Requirements - Continuous Opacity Monitoring

Pursuant to 326 IAC 3-5-7(Reporting requirements) the following reporting requirements apply to sources subject to this rule:

- (a) Excess emissions shall be reported no less frequently than quarterly. For sources required to report quarterly, such reports shall be:
 - (1) submitted by the Permittee to the IDEM, OAM and VCAPC; and
 - (2) postmarked or delivered by other means no later than thirty (30) calendar days following the last day of the reporting period.
- (b) The monitoring report shall contain the following continuous monitoring information summaries, with all times reported in real time.
 - (1) Monitored facility operation time during the reporting period:
 - (2) Excess emissions or parameters, as applicable, reported in units of the standard, or the applicable parameter unit as follows:
 - (A) Date of excess emissions, or other applicable dates.
 - (B) Time of commencement and completion for each applicable parameter deviation or excess emission data.
 - (3) Magnitude of each excess emission as follows:
 - (A) The actual percent opacity of all six (6) minute (block) averages exceeding the applicable opacity limit shall be reported. If the exceedance occurs continuously beyond one (1) six (6) minute period, the percent opacity for each six (6) minute average or the highest six (6) minute average opacity for the entire period shall be reported.
 - (B) A summary by cause shall be prepared and submitted as part of this report itemizing exceedances by cause.
- (c) Continuous monitoring system instrument downtime except for zero (0) and span checks, which shall be reported separately, shall include the following:
 - (1) Date of downtime.
 - (2) Time of commencement.
 - (3) Duration of each downtime.
 - (4) Reasons for each downtime.
 - (5) Nature of systems repairs and adjustments.

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

Insignificant Activity:

Science building incinerator with emissions below insignificant thresholds.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 Incinerator Requirements [326 IAC 4-2]

Pursuant to 326 IAC 4-2, all incinerators shall:

- (1) Consist of primary and secondary chambers or the equivalent;
- (2) Be equipped with a primary burner unless burning wood products;
- (3) Be maintained properly as specified by the manufacturer and approved by the Commissioner;
- (4) Be operated according to the manufacturer's recommendations and only burn waste approved by the Commissioner;
- (5) Be operated so that emissions of hazardous material including, but not limited to, viable pathogenic bacteria, dangerous chemicals or gases, or noxious odors are prevented;
- (6) Not emit particulate matter in excess of :
 - (a) For incinerators with a maximum refuse-burning capacity of 200 pounds per hour: 0.3 pounds of PM per 1,000 pounds of dry exhaust gas at standard conditions, corrected to fifty percent (50%) excess air; or
 - (b) For all other incinerators: 0.5 pounds of PM per 1,000 pounds of dry exhaust gas at standard conditions, corrected to fifty percent (50%) excess air; and
- (7) Not create a nuisance or a fire hazard.

D.2.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this incinerator and its control device.

Compliance Determination Requirements

D.2.3 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However, IDEM and VCAPC may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM and VCAPC, compliance with the PM limit specified in Condition D.2.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.2.4 Visible Emissions Notations

- (a) Daily visible emission notations of stack exhaust from this incinerator, shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.5 Record Keeping Requirements

- (a) To document compliance with Condition D.2.4, the Permittee shall maintain records of daily visible emission notations of the stack exhaust from this incinerator.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.6 Reporting Requirements

A summary of the information to document compliance with Condition D.2.5 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, upon request.

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)] Insignificant Activity:

Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.3.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:
 - (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:

- (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38EC) (one hundred degrees Fahrenheit (100EF));
 - (B) The solvent is agitated; or
 - (C) The solvent is heated.
- (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38EC) (one hundred degrees Fahrenheit (100EF)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
- (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
- (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
- (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38EC) (one hundred degrees Fahrenheit (100EF)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9EC) (one hundred twenty degrees Fahrenheit (120EF)):
- (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
 - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
 - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

Compliance Determination Requirements

D.3.2 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However, IDEM and VCAPC may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM and VCAPC, compliance with the VOC limit specified in Condition D.3.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

Testing of this facility is not specifically required by this permit. However, if testing is required, compliance shall be determined by a performance test conducted in accordance with Section C - Performance Testing. This does not preclude testing requirements on this facility under 326 IAC 2-7-5 and 326 IAC 2-7-6.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.3.3 Record Keeping and Reporting Requirement

There are no record keeping or reporting requirements for this facility.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT, COMPLIANCE DATA SECTION
and VIGO COUNTY AIR POLLUTION CONTROL**

**PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Indiana State University
Source Address: 951 Sycamore Street, Terre Haute, Indiana 47809
Mailing Address: 951 Sycamore Street, Terre Haute, Indiana 47809
Part 70 Permit No.: 167-7546-00010

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify) _____
- Report (specify) _____
- Notification (specify) _____
- Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION
P.O. Box 6015, 100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674, Fax: 317-233-5967**

**VIGO COUNTY AIR POLLUTION CONTROL
201 Cherry Street, Terre Haute, Indiana 47807
Phone: 812-462-3433, Fax: 812-462-3447**

**PART 70 OPERATING PERMIT
EMERGENCY/DEVIATION OCCURRENCE REPORT**

Source Name: Indiana State University
Source Address: 951 Sycamore Street, Terre Haute, Indiana 47809
Mailing Address: 951 Sycamore Street, Terre Haute, Indiana 47809
Part 70 Permit No.: 167-7546-00010

This form consists of 2 pages

Page 1 of 2

Check either No. 1 or No.2
9 1. This is an emergency as defined in 326 IAC 2-7-1(12) C The Permittee must notify the Office of Air Management (OAM), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and C The Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16
9 2. This is a deviation, reportable per 326 IAC 2-7-5(3)(c) C The Permittee must submit notice in writing within ten (10) calendar days

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency/Deviation:
Describe the cause of the Emergency/Deviation:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency/Deviation started:
Date/Time Emergency/Deviation was corrected:
Was the facility being properly operated at the time of the emergency/deviation? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency/deviation:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____
Title / Position: _____
Date: _____
Phone: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION
and VIGO COUNTY AIR POLLUTION CONTROL**

**PART 70 OPERATING PERMIT
NATURAL GAS FIRED BOILER CERTIFICATION**

Source Name: Indiana State University
Source Address: 951 Sycamore Street, Terre Haute, Indiana 47809
Mailing Address: 951 Sycamore Street, Terre Haute, Indiana 47809
Part 70 Permit No.: 167-7546-00010

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.		
<u>Report period</u>		
Beginning: _____		
Ending: _____		
<u>Boiler Affected</u>	<u>Alternate Fuel</u>	<u>Days burning alternate fuel</u>
		<u>From</u> <u>To</u>
Boiler #4	No. 2 fuel oil	

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.	
Signature: _____	
Printed Name: _____	
Title/Position: _____	
Date: _____	

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT, COMPLIANCE DATA SECTION
and VIGO COUNTY AIR POLLUTION CONTROL**

Part 70 Quarterly Report

Source Name: Indiana State University
Source Address: 951 Sycamore Street, Terre Haute, Indiana 47809
Mailing Address: 951 Sycamore Street, Terre Haute, Indiana 47809
Part 70 Permit No.: 167-7546-00010
Facility: Boiler #2
Parameter: Fuel usage; % Sulfur of coal; % Ash of coal, heating value of coal, equivalent SO₂ emissions
Limit: SO₂ emissions - 5.64 lb/MMBtu heat input

YEAR: _____

Month	Coal Usage (tons)	% Sulfur content of Coal	% Ash content of Coal	Equivalent SO ₂ emissions (lb/MMBtu)
Month 1				
Month 2				
Month 3				

- 9 No deviation occurred in this quarter.
- 9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Note: Please attach coal analysis or vender certification.

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT, COMPLIANCE DATA SECTION
and VIGO COUNTY AIR POLLUTION CONTROL**

Part 70 Quarterly Report

Source Name: Indiana State University
Source Address: 951 Sycamore Street, Terre Haute, Indiana 47809
Mailing Address: 951 Sycamore Street, Terre Haute, Indiana 47809
Part 70 Permit No.: 167-7546-00010
Facility: Boiler #3
Parameter: Fuel usage; % Sulfur of coal; % Ash of coal, heating value of coal, equivalent SO₂ emissions
Limit: SO₂ emissions - 5.64 lb/MMBtu heat input

YEAR: _____

Month	Coal Usage (tons)	% Sulfur content of Coal	% Ash content of Coal	Equivalent SO ₂ emissions (lb/MMBtu)
Month 1				
Month 2				
Month 3				

- 9 No deviation occurred in this quarter.
- 9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Note: Please attach coal analysis or vender certification.

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR MANAGEMENT, COMPLIANCE DATA SECTION
 and VIGO COUNTY AIR POLLUTION CONTROL**

Part 70 Quarterly Report

Source Name: Indiana State University
 Source Address: 951 Sycamore Street, Terre Haute, Indiana 47809
 Mailing Address: 951 Sycamore Street, Terre Haute, Indiana 47809
 Part 70 Permit No.: 167-7546-00010
 Facility: Boiler #5
 Parameter: Fuel usage; % Sulfur of coal; % Ash of coal, heating value of coal, equivalent SO₂ emissions;
 hours burning coal
 Limit: SO₂ emissions - 5.64 lb/MMBtu heat input; 6,177 hours burning coal

YEAR: _____

Month	Coal Usage (tons)	hours burning Coal	% Sulfur content of Coal	% Ash content of Coal	Equivalent SO ₂ emissions (lb/MMBtu)
Month 1					
Month 2					
Month 3					

- 9 No deviation occurred in this quarter.
- 9 Deviation/s occurred in this quarter.
 Deviation has been reported on: _____

Note: Please attach coal analysis or vender certification.

Submitted by: _____
 Title / Position: _____
 Signature: _____
 Date: _____
 Phone: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION
and VIGO COUNTY AIR POLLUTION CONTROL**

**PART 70 OPERATING PERMIT
QUARTERLY COMPLIANCE MONITORING REPORT**

Source Name: Indiana State University
Source Address: 951 Sycamore Street, Terre Haute, Indiana 47809
Mailing Address: 951 Sycamore Street, Terre Haute, Indiana 47809
Part 70 Permit No.: 167-7546-00010

Months: _____ to _____ Year: _____

This report is an affirmation that the source has met all the compliance monitoring requirements stated in this permit. This report shall be submitted quarterly. Any deviation from the compliance monitoring requirements and the date(s) of each deviation must be reported. Additional pages may be attached if necessary. This form can be supplemented by attaching the Emergency/Deviation Occurrence Report. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS PERIOD

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD.

Compliance Monitoring Requirement (e.g. Permit Condition D.1.3)	Number of Deviations	Date of each Deviations	

Form Completed By: _____
Title/Position: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

**Indiana Department of Environmental Management
Office of Air Management
and Vigo County Air Pollution Control**

Technical Support Document (TSD) for a Part 70 Operating Permit

Source Background and Description

Source Name: Indiana State University
Source Location: 951 Sycamore Street, Terre Haute, Indiana 47809
County: Vigo County
SIC Code: 8221
Operation Permit No.: T167-7546-00010
Permit Reviewer: Dana L. Brown / Rob Harmon

The Office of Air Management (OAM) and Vigo County Air Pollution Control (VCAPC), has reviewed a Part 70 permit application from Indiana State University relating to the operation of boilers and incinerators at a university.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (1) One (1) traveling grate type, coal fired boiler, identified as Boiler #2, with a maximum capacity of 56.25 MMBtu per hour, using a multicyclone and electrostatic precipitator as control, and exhausting to stack 001, which is equipped with a continuous opacity monitor.
- (2) One (1) traveling grate type, coal fired boiler, identified as Boiler #3, with a maximum capacity of 75.00 MMBtu per hour, using a multicyclone and electrostatic precipitator as control, and exhausting to stack 001, which is equipped with a continuous opacity monitor.
- (3) One (1) cyclone type, coal fired boiler, using natural gas and No. 2 fuel oil for backup, identified as Boiler #5, with a maximum capacity of 156.25 MMBtu per hour, using an electrostatic precipitator as control, and exhausting to stack 001, which is equipped with a continuous opacity monitor.
- (4) One (1) natural gas fired boiler, using No. 2 fuel oil for backup, identified as Boiler #4, with a maximum capacity of 93.75 MMBtu per hour, with no control, and exhausting to stack 002.

Unpermitted Emission Units and Pollution Control Equipment Under ENSR

There are no unpermitted facilities operating at this source during this review process.

Emission Units and Pollution Control Equipment Under ENSR

There are no new facilities to be reviewed under the ENSR process.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (1) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour.
- (2) Wood-fired combustion sources with heat input equal to or less than one million (1,000,000) Btu per hour and not burning wood refuse, treated wood, or chemically contaminated wood.
- (3) Combustion source flame safety purging on startup.
- (4) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons.
- (5) A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
- (6) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughput less than 12,000 gallons.
- (7) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.
- (8) Equipment used exclusively for filling drums, pails or other packaging containers with lubricating oils, waxes, and greases.
- (9) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.
- (10) Noncontact cooling tower systems with forced and induced draft cooling tower system not regulated under a NESHAP.
- (11) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (12) Process vessel degreasing and cleaning to prepare for internal repairs.
- (13) Paved and unpaved roads and parking lots with public access.
- (14) Covered conveyor for coal or coke conveying of less than or equal to 360 tons per day;
- (15) Coal bunker and coal scale exhausts and associated dust collector vents.
- (16) Asbestos abatement projects regulated by 326 IAC 14-10.

- (17) Purging of gas lines and vessels that is related to routing maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.
- (18) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
- (19) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
- (20) Diesel powered, emergency generators not exceeding 1600 horsepower.
- (21) Natural gas turbines or reciprocating engine, emergency generators, not exceeding 16,000 horsepower.
- (22) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations.
- (23) Purge double block and bleed valves.
- (24) Filter or coalescer media changeout.
- (25) Vents from ash transport systems not operated at positive pressure.
- (26) A laboratory as defined in 326 IAC 2-7-1(21)(D).
- (27) Science building incinerator with emissions below insignificant thresholds.

Existing Approvals

The source has been operating under the following approvals:

- (1) OP 10-8221-01-93, issued on May 6, 1993;
- (2) OP 10-8221-02-93, issued on May 6, 1993;
- (3) OP 10-8221-03-93, issued on May 6, 1993;
- (4) OP 10-8221-04-93, issued on May 6, 1993; and
- (50) OP 10-8221-05-93, issued on May 6, 1993.

Enforcement Issue

The source has entered into an agreed order with VCAPC that includes installing a six minute averaging card into the existing continuous opacity monitor on stack 001, which exhausts emissions from Boilers #2, #3 and #5.

Recommendation

The staff recommends to the Commissioner that the Part 70 permit be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete Part 70 permit application for the purposes of this review was received on December 12, 1996.

A notice of completeness letter was sent to the source on February 6, 1997.

Emission Calculations

See Appendix A of this document for detailed emissions calculations. (8 pages)

Potential Emissions

Pursuant to 326 IAC 1-2-55, Potential Emissions are defined as “emissions of any one (1) pollutant which would be emitted from a facility, if that facility were operated without the use of pollution control equipment unless such control equipment is necessary for the facility to produce its normal product or is integral to the normal operation of the facility.”

Pollutant	Potential Emissions (tons/year)
PM	greater than 250
PM-10	greater than 250
SO ₂	greater than 250
VOC	less than 100
CO	greater than 100, less than 250
NO _x	greater than 250

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

HAP's	Potential Emissions (tons/year)
TOTAL	less than 10

- (a) The potential emissions (as defined in the Indiana Rule) of PM, PM-10, SO₂, CO and NO_x are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

(b) Fugitive Emissions

Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects 1996 emission data.

Pollutant	Actual Emissions (tons/year)
PM	2.35
PM-10	0.922
SO ₂	943.73
VOC	0.48
CO	60.56
NO _x	78.98
Lead	0.131

County Attainment Status

The source is located in Vigo County.

Pollutant	Status
PM-10	Attainment
SO ₂	Maintenance
NO _x	Attainment
Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) and oxides of nitrogen (NO_x) are precursors for the formation of ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. Vigo County has been designated as attainment or unclassifiable for ozone.

Part 70 Permit Conditions

This source is subject to the requirements of 326 IAC 2-7, pursuant to which the source has to meet the following:

- (1) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of issuance of Part 70 permits.
- (2) Monitoring and related record keeping requirements which assume that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

Federal Rule Applicability

- (a) Boilers #2, 56.25 MMBtu per hour, constructed in 1950, Boiler #3, 75 MMBtu per hour, constructed in 1961, Boiler #4, 93.75 MMBtu per hour, constructed in 1970, and Boiler #5, 156.25 MMBtu per hour, constructed in 1969, are not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.42, Subpart D), because the boilers were constructed prior to the August 17, 1971 applicability date, and are each below the 250 MMBtu per hour applicability level of this rule.
- (b) Boilers #2, 56.25 MMBtu per hour, constructed in 1950, Boiler #3, 75 MMBtu per hour, constructed in 1961, Boiler #4, 93.75 MMBtu per hour, constructed in 1970, and Boiler #5, 156.25 MMBtu per hour, constructed in 1969, are not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.42b, Subpart Db), because the boilers were constructed prior to the June 19, 1984 applicability date, and Boilers #2, 3, and 4 are below the 100 MMBtu per hour applicability level of this rule.
- (c) Boilers #2 constructed in 1950, Boiler #3 constructed in 1961, Boiler #4 constructed in 1970, and Boiler #5 constructed in 1969, are not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.42c, Subpart Dc), because the boilers were constructed prior to the June 9, 1989 applicability date.
- (d) The Science Building incinerator may be subject to New Source Performance Standard, 40 CFR 60.30e, Subpart Ce (Emission Guidelines and Compliance Times for Hospital / Medical / Infectious Waste Incinerators) within one (1) year after approval of the State Plan for this rule.
- (e) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration)

This source is not subject to 326 IAC 2-2 (PSD) because it is a non-profit educational institution.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it has the potential to emit more than one hundred (100) tons per year of PM-10 and SO₂. Pursuant to this rule, the owner/operator of the source must annually submit an emission statement for the source. The annual statement must be received by July 1 of each year and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8) (Emission Statement Operating Year).

326 IAC 3-7-2 (Coal sampling and Analysis Procedures)

Pursuant to 326 IAC 3-7-2(b)(3) the coal sampling system shall meet the following minimum requirements.

- (A) The coal sample acquisition point shall be at a location where representative samples of the total coal flow to be combusted by the facility or facilities may be obtained. A single as-bunkered or as-burned sampling station may be used to represent the coal to be combusted by multiple facilities using the same stockpile feed system.
- (B) Coal shall be sampled at least three (3) times per day and at least one (1) time per eight (8) hour period unless no coal is bunkered during the preceding eight (8) hour period.
- (C) Minimum sample size shall be five hundred (500) grams.
- (D) Samples shall be composited and analyzed at the end of each calendar month.

Pursuant to 326 IAC 3-7-2(c) coal samples shall be prepared for analysis in accordance with procedures specified in ASTM D2013-86, "Standard Method of Preparing Coal Samples for Analysis". The preparation of samples shall meet the following requirements:

- (1) Samples shall be prepared in accordance with ASTM D2013-86, Procedure A or Procedure B.
- (2) Sample preparation shall be checked at weekly intervals by performing a split sample of the twenty four (24) hour composite sample and preparing and analyzing these two (2) identically.

Pursuant to 326 IAC 3-7-2(d) the heat content of coal samples shall be determined in accordance with procedures specified in ASTM D2015-95, "Standard Test Method for Gross Calorific Value of Solid Fuel by the Adiabatic Bomb Calorimeter", or ASTM D 3286-91A, "Standard Test Method for Gross Calorific Value of Coal and Coke by the Isothermal Jacket Bomb Calorimeter". Restandardization requirements in Section 11 of both methods shall be followed. Precision requirements for repeatability shall be verified according to Section 16.1.1 of both methods at a minimum of once per week.

Pursuant to 326 IAC 3-7-2(e) the sulfur content of coal samples shall be determined according to procedures specified in ASTM D3177-89, "Standard Test Methods for Total Sulfur in the Analysis Sample of Coal and Coke", or ASTM D4239-94, "Standard Test Methods for Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods". Precision requirements for repeatability shall be verified according to ASTM D3177-89 Section 13, or ASTM D4239-94, Section 18, at a minimum of one (1) time per week. The laboratory that performs the analysis shall participate in an interlaboratory audit program using coal samples provided by the department.

326 IAC 5-1 (Visible Emissions Limitations)

Pursuant to 326 IAC 5-1-2 (Visible Emissions Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), visible emissions shall meet the following, unless otherwise stated in this permit:

- (a) Visible emissions shall not exceed an average of thirty percent (30%) opacity in twenty-four (24) consecutive readings as determined by 326 IAC 5-1-4,
- (b) Visible emissions shall not exceed sixty percent (60%) opacity for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) in a six (6) hour period.

State Rule Applicability - Individual Facilities

326 IAC 3-5 (Continuous Monitoring of Emissions)

Pursuant to 326 IAC 3-5-1(c)(2)(A) and the Agreed Order issued on May 20, 1998, Boiler #2, Boiler #3, and Boiler #5 are required to continuously monitor for opacity.

Pursuant to 326 IAC 3-5-2 (Minimum performance and operating specifications) owners and operators of monitoring equipment installed to comply with this rule shall comply with the performance specifications and operating requirements as follows:

- (1) Performance specifications set forth in 40 CFR 60 Appendix B, shall be used to certify monitoring equipment installed pursuant to this rule; however, where reference is made to the administrator in 40 CFR 60, Appendix B, the term "department" shall be inserted for purposes of this rule, and where continuous emissions monitors were installed prior to March 1983 for measuring opacity, the performance specification in 40 CFR 60, Appendix B, 1982 Edition, shall apply.

- (2) Cycling times, which include the total time a monitoring system requires to sample, analyze, and record an emission measurement, shall be as follows:
 - (A) Continuous monitoring systems for measuring opacity shall complete a minimum of one (1) cycle of operation (sampling, analyzing, and data recording) for each successive ten (10) second period.
- (3) For opacity monitoring when effluent from two (2) or more affected facilities is combined before being released to the atmosphere, the owner or operator may either:
 - (A) install a continuous opacity monitoring system on the combined effluent; or
 - (B) install a continuous opacity monitoring system comprised of, and capable of combining the signals from, component transmissometers on each effluent stream.Results shall be reported on combined effluent.
- (5) Instrument full-scale response or upper limit of concentration measurement range for all opacity monitoring systems shall be set at one hundred percent (100%) opacity if possible.
- (6) Locations for installing continuous monitoring systems or monitoring devices that vary from locations provided under the performance specifications of 40 CFR 60, Appendix B, shall be approved by the department and the US EPA upon a demonstration by the owner or operator that installation at alternative locations will enable accurate and representative measurements.
- (7) Owners or operators of affected facilities shall conduct continuous emission monitoring system performance evaluations, upon the request of the department, to demonstrate continuing compliance of the continuous emission monitoring systems with performance specifications as follows:
 - (A) A performance evaluation is a quantitative and qualitative evaluation of the performance of the continuous monitor in terms of:
 - (i) accuracy;
 - (ii) precision;
 - (iii) reliability;
 - (iv) representativeness; and
 - (v) comparability;of the data acquired by the monitoring system.
 - (B) The department may request owners or operators of affected facilities, as defined in section 1(b) of this rule, to conduct continuous emission monitoring system performance evaluations if the department has reason to believe, based on review of monitoring data, quality assurance data, inspections, or other information, that the continuous emission monitoring system is malfunctioning or may be providing invalid data over an extended period.
 - (C) A written report containing the complete information of the performance evaluations shall be furnished to the department within forty-five (45) days after the test date. The department may conduct performance evaluations of the continuous emission monitoring systems at any time in order to verify the continued compliance of the systems with the performance specifications.

Pursuant to 326 IAC 3-5-3(Monitor system certification) monitor system certification requirements apply to sources and facilities subject to this rule as follows:

- (1) The owner or operator shall conduct the applicable performance specifications tests in accordance with the procedures specified in 40 CFR 60, or other applicable federal regulations, for the required monitoring system as follows:
 - (A) Not later than one hundred eighty (180) days after a facility start-up or initial monitor installation date.
 - (B) Not later than forty-five (45) unit operating days after monitor replacement date, or significant monitor repair as described in IDEM's Quality Assurance Manual, Chapter 20 (dated June 20, 1997), which affects the ability of the analyzer to function date.

- (2) The owner or operator shall notify the department in writing as follows:
 - (A) No less than fourteen (14) days in advance of the start of continuous opacity monitor (COM) certification.
- (3) The owner or operator shall submit all the required test data and information in the form of a written report to the department for review and approval within forty-five (45) days of completion of the performance specification test.
- (4) The department shall issue a written notice of certification status upon review of the compliance certification test report. A required monitoring system is certified when the department issues a certification letter stating that the applicable components, has satisfactorily met all federal and state monitoring requirements.
- (5) The department may decertify a required monitoring system if an audit or performance evaluation reveals that such monitoring system or a component thereof does not meet applicable performance specifications or requirements. The owner or operator shall repeat the certification process for the required monitoring system within forty-five (45) days of the date of the department's decertification of the required monitoring system.

Pursuant to 326 IAC 3-5-4(Standard operating procedures) the owner or operator shall meet the following:

- (a) The owner or operator of each affected facility specified in section 1(b) of this rule, any facility subject to 326 IAC 12, or any facility required to monitor emissions on a continuous basis shall submit to the department, within ninety (90) days after monitor installation, a complete, written continuous monitoring standard operating procedures (SOP). If revisions are made to the SOP, updates shall be submitted to the department biennially. At a minimum, the SOP shall complete step-by-step procedures and operations as follows:
 - (1) A description of the facility monitored.
 - (2) A listing of the following:
 - (A) Each monitor's brand.
 - (B) Model number.
 - (C) Serial number.
 - (D) Monitoring location.
 - (E) Data handling and acquisition system.
 - (3) Examples of all reporting and log forms.
 - (4) Record keeping and reporting procedures that include the following:
 - (A) Reporting of instrument precision and accuracy.
 - (B) Reporting of emissions data.
 - (5) Methods and procedures for analysis and data acquisition.
 - (6) Calibration procedures that include the following:
 - (A) Calibration error limits and linearity.
 - (B) Calibration gas type, gas quality, and traceability to the National Institute of Standards and Technology.
 - (C) Calibration frequency.
 - (D) Criteria for recalibration, and analysis procedures to periodically verify the accuracy of span and calibration standards.
 - (7) Operation procedures that include daily procedures, quantifying and recording daily zero (0) and high level drift that meet the requirements of 40 CFR 60, Appendix B, Performance Specification 2, Section 4.2 or other applicable regulations, and other operating parameter checks indicating correct operational status.
 - (8) Quality control and quality assurance procedures that include the following:
 - (A) A statement of quality policy and objectives.
 - (B) Organization and responsibilities description.
 - (C) Calibration and span and zero (0) drift criteria.
 - (D) Excessive drift criteria.

- (E) Corrective action for excessive drift.
- (F) Precision and accuracy audits.
- (G) Corrective action for accuracy audits failure.
- (H) Data validity criteria.
- (I) Participation in department audits.
- (J) Data recording and calculation audits.
- (9) Preventive maintenance procedures and corrective maintenance procedures that include those procedures taken to ensure continuous operation and to minimize malfunctions.
- (10) A listing of the manufacturer's recommended spare parts inventory.
- (b) If a facility owner or operator fails to submit a SOP or submits an SOP that fails to address the factors provided under subsection (a), the department may require a performance evaluation pursuant to section (2) of this rule.

Pursuant to 326 IAC 3-5-5(Quality assurance requirements) the owner or operator shall meet the following:

- (c) Quality control (QC) requirements for continuous opacity monitoring systems (COMS) are as follows:
 - (1) For calibration drift (CD) assessment, the COMS shall be checked at least once daily. The CD shall be quantified and recorded at zero (0) (or low level) and upscale level opacity. The COMS shall be adjusted whenever the CD exceeds the specification of 40 CFR 60, Appendix B, Performance Specification 1 (PS-1), and the COMS shall be declared out of control when the CD exceeds twice the specification of PS-1. Corrective actions, followed by a validating CD assessment, are required when the COMS is out of control.
 - (2) For fault indicators assessment, the fault lamp indicators, data acquisition system error messages, and other system self-diagnostic indicators shall be checked at least daily. Appropriate corrective actions shall be taken when the COMS is operating outside the preset limits.
 - (3) For performance audits, checks of the individual COMS components and factors affecting the accuracy of the monitoring data, as described in this subdivision, shall be conducted, at a minimum, on a calendar quarter basis. The absolute minimum checks included in the performance audit are as follows:
 - (A) The status of the optical alignment of the monitor components shall be checked and recorded according to the procedure specified by the monitor manufacturer. Monitor components must be realigned as necessary.
 - (B) The apparent effluent opacity shall be compared and recorded before and after cleaning each of the exposed optical surfaces. The total optical surface dust accumulation shall be determined by summing up the apparent reductions in opacity for all of the optical surfaces that are cleaned. Caution must be employed in performing this check since fluctuations in effluent opacity occurring during the cleaning cycle may adversely affect the results.
 - (C) The zero (0) and upscale response errors shall be determined and recorded according to the CD procedures. The errors are defined as the differences (in percent opacity) between the correct value and the observed value for the zero (0) and high level calibration checks.
 - (D) The value of the zero (0) compensation applied at the time of the audit shall be calculated as equivalent opacity, corrected to stack exit conditions, according to the procedures specified by the manufacturer. The compensation applied to the effluent recorded by the monitor system shall be recorded.

- (E) The optical pathlength correction ratio (OPLR) shall be computed from the monitor pathlength and stack exit diameter and shall be compared, and the difference recorded, to the monitor setup OPLR value. The stack exit correlation error shall be determined as the absolute value of the difference between the measured value and the corrected value, expressed as a percentage of the correct value.
- (F) A three-point calibration error test of the COMS shall be conducted. Three (3) neutral density filters meeting the requirements of PS-1 shall be placed in the COMS light beam path. The monitor response shall be independently recorded from the COMS permanent data recorder. Make a total of five (5) nonconsecutive readings for each filter. The low-range, mid-range, and high-range calibration error results shall be computed as the mean difference and ninety-five percent (95%) confidence interval for the difference between the expected and the actual responses of the monitor as corrected to stack exit conditions. These values shall be calculated using the procedure of PS-1, Section 8.0. The following are requirements for these values:
 - (i) The calibration error test required the installation of an external calibration audit device (zero-jig). The zero-jig shall be adjusted to provide the same zero (0) response as the monitor's simulated zero (0).
 - (ii) Use calibration attenuators, that is, neutral density filters or screens, with values that have been determined according to PS-1, Section 7.1.3, "Attenuator Calibration", and produce simulated opacities (as corrected to stack exit conditions) in the ranges listed in Table 1-2 in PS-1.
 - (iii) The stability of the attenuator values shall be checked at least once per year according to the procedures specified in PS-1. The attenuators shall be recalibrated if the stability checks indicate a change of 2% opacity or greater.
- (4) The following are requirements for monitor acceptance criteria:
 - (A) The following criteria are to be used for determining if the COMS audit results are acceptable:

Stack Exit Correlation Factor	# 2 percent
Zero and Upscale Responses	# 2 percent opacity
Zero Compensation	# 4 percent opacity
Optical Alignment	Misalignment error
	# 2 percent opacity
Optical Surface Dust Accumulation	# 4 percent opacity
Calibration Error	# 3 percent opacity
 - (B) The COMS is out of control whenever the results of a quarterly performance audit indicate noncompliance with any of the performance assessment criteria of Table 1 in clause (A). If the COMS is out of control, the owner or operator must take the action necessary to eliminate the problem. Following corrective action, the source owner or operator must reconduct the appropriate failed portion of the audit and other applicable portions to determine whether the COMS is operating properly and within specifications. The COMS owner or operator shall record both audit results showing the COMS to be out of control and the results following the corrective action. COMS data obtained during any out of control period may not be used for compliance determination; the data may be used for identifying periods where there has been a failure to meet quality assurance and control criteria.

- (C) Repeated audit failures, that is, out of control conditions resulting from the quarterly audits, indicate that the QC procedures are inadequate or the COMS is incapable of providing quality data. The source owner or operator shall increase the frequency of the above QC procedures until the performance criteria are maintained or modify or replace the COMS whenever two (2) consecutive quarters of unacceptable performance occur.
- (5) The performance audit calculations contained in PSS-1, section 8 shall be followed.
- (e) Reporting requirements for performance audits are as follows:
 - (1) Owners or operators of facilities required to conduct:
 - (C) continuous opacity monitor calibration error audit;on continuous emission monitors shall prepare a written report of the results of the performance audit for each calendar quarter, or for other periods required by the department. Quarterly reports shall be submitted to the department within thirty (30) calendar days after the end of each quarter.
 - (2) The performance audit report shall contain the following information:
 - (A) Plant and monitor information, including the following:
 - (i) The plant name and address.
 - (ii) The monitor brand, model, and serial number.
 - (iii) The monitor span.
 - (iv) The monitor location, for example, duct, boiler, unit, or stack designation.
 - (B) Performance audit information, including the following:
 - (i) The auditor's name.
 - (ii) A copy of the audit standard's certification, for example, the vendor's Protocol 1 certification, or neutral density filter certification.
 - (iii) All data used to calculate the audit results.
 - (iv) The audit results and an indication if the monitor passed or failed the audit. If the performance audit results show the CEMS or COMS to be out of control, the CEMS or COMS owner or operator must report both the audit results showing the CEMS or COMS to be out of control and the results of the audit following the corrective action showing the COMS to be operating within specification.
 - (v) Any corrective actions performed as the result of a failed audit.

Pursuant to 326 IAC 3-5-6(Record keeping requirements) the owner or operator shall meet the following:

- (a) On and after the certification of a monitoring system, the owner or operator of a source subject to this rule shall maintain records, including raw data, of all monitoring data and supporting information for a minimum of five (5) years from the date of the following:
 - (1) A monitoring sample.
 - (2) A measurement.
 - (3) A test.
 - (4) A certification.
 - (5) A report.
 - (6) Any other activity required under this article.
- (b) The records described in subsection (a) shall include the following:
 - (1) All documentation relating to:
 - (A) design, installation, and testing of all elements of the monitoring system; and
 - (B) required corrective action or compliance plan activities.
 - (2) All maintenance logs, calibration checks, and other required quality assurance activities.
 - (3) All records of corrective and preventive action.
 - (4) A log of plant operations, including the following:
 - (A) Date of facility downtime.
 - (B) Time of commencement and completion of each downtime.

- (C) reason for each downtime.
- (c) The owner or operator of a source subject to this rule shall maintain the records required by this section at the source, or at such other site, in a manner so that they may be inspected by the department or the US EPA, if so requested or required.

Pursuant to 326 IAC 3-5-7(Reporting requirements) the following reporting requirements apply to sources subject to this rule:

- (1) Sources subject to the requirements of section 1 of this rule shall report excess emissions no less frequently than quarterly. For sources required to report quarterly, such reports shall be:
- (A) submitted by the facility owner or operator to the department; and
- (B) postmarked or delivered by other means no later than thirty (30) calendar days following the last day of the reporting period.
- (4) The monitoring report shall contain the following continuous monitoring information summaries, with all times reported in real time.
- (A) Monitored facility operation time during the reporting period:
- (B) Excess emissions or parameters, as applicable, reported in units of the standard, or the applicable parameter unit as follows:
- (i) Date of excess emissions, or other applicable dates.
- (ii) Time of commencement and completion for each applicable parameter deviation or excess emission data.
- (C) Magnitude of each excess emission as follows:
- (i) For opacity as follows:
- (AA) The actual percent opacity of all six (6) minute (block) averages exceeding the applicable opacity limit shall be reported. If the exceedance occurs continuously beyond one (1) six (6) minute period, the percent opacity for each six (6) minute average or the highest six (6) minute average opacity for the entire period shall be reported.
- (BB) For department approved opacity averaging times other than six (6) minutes, the actual percent opacity of each averaging period in excess of the applicable limit shall be reported.
- (CC) A summary by cause shall be prepared and submitted as part of this report itemizing exceedances by cause.
- (5) Continuous monitoring system instrument downtime except for zero (0) and span checks, which shall be reported separately, shall include the following:
- (A) Date of downtime.
- (B) Time of commencement.
- (C) Duration of each downtime.
- (D) Reasons for each downtime.
- (E) Nature of systems repairs and adjustments.

326 IAC 4-2 (Incinerators)

Pursuant to 326 IAC 4-2, all incinerators shall:

- (1) Consist of primary and secondary chambers or the equivalent;
- (2) Be equipped with a primary burner unless burning wood products;
- (3) Be maintained properly as specified by the manufacturer and approved by the Commissioner;
- (4) Be operated according to the manufacturer's recommendations and only burn waste approved by the Commissioner;
- (5) Be operated so that emissions of hazardous material including, but not limited to, viable pathogenic bacteria, dangerous chemicals or gases, or noxious odors are prevented;
- (6) Not emit particulate matter in excess of :

- (a) For incinerators with a maximum refuse-burning capacity of 200 pounds per hour: 0.3 pounds of PM per 1,000 pounds of dry exhaust gas at standard conditions, corrected to fifty percent (50%) excess air; or
- (b) For all other incinerators: 0.5 pounds of PM per 1,000 pounds of dry exhaust gas at standard conditions, corrected to fifty percent (50%) excess air; and
- (7) Not create a nuisance or a fire hazard.

326 IAC 6-1-13 (Particulate Matter)

- (a) Pursuant to 326 IAC 6-1-13, Boilers #2 and #3 shall be limited to 0.35 pounds per MMBtu and a combined total of 207.5 tons per year, and shall not be used simultaneously with Boiler #5. Boiler #4 shall be limited to 0.15 pounds per MMBtu and 57.5 tons per year, and Boiler #5 shall be limited to 0.35 pounds per MMBtu and 232.4 tons per year.
- (b) Pursuant to OP 10-8221-02-93 and OP 10-8221-03-93, both issued on May 6, 1993, Boiler #2 shall be limited to 86.24 tons per year, and Boiler #3 shall be limited to 114.98 tons per year. These emissions are lower than the allowable emissions from 326 IAC 6-1-13, therefore the source shall comply with the lower limits.
- (c) In order to comply with these limits, the cyclones controlling PM emissions from Boilers #2 and #3, and the electrostatic precipitator controlling PM emissions from Boilers #2, #3 and #5, shall be in operation at all times that the boilers are in operation.

326 IAC 7-1.1-1 (Sulfur dioxide)

This rule is not applicable to this source because 326 IAC 7-4 contains stricter limitations that are applicable.

326 IAC 7-4-3 (Sulfur dioxide)

Pursuant to 326 IAC 7-4-3, Boilers #2, #3 and #5 shall each be limited to 5.64 pounds per MMBtu, and Boiler #4 shall be limited to 0.37 pounds per MMBtu.

- (a) Based on a heating value of 12,000 Btu per pound of coal, the fuel sulfur content for the coal used in Boilers #2, #3 and #5 shall be limited to 3.6% sulfur.

$$\frac{5.64 \text{ lb}}{\text{MMBtu}} = \frac{38 \text{ S lb}}{\text{ton}} \times \frac{1 \text{ lb}}{0.012 \text{ MMBtu}} \times \frac{1 \text{ T}}{2000 \text{ lb}}$$

$$S = 3.6 \%$$

The source is currently combusting coal with a sulfur content of 2.1% sulfur, therefore, they are in compliance with this rule.

- (b) Based on a heating value of 140,000 Btu per gallon of No. 2 fuel oil, the sulfur content for the No. 2 fuel oil used in Boiler #4 shall be limited to 0.36% sulfur.

$$\frac{0.37 \text{ lb}}{\text{MMBtu}} = \frac{142 \text{ S lb}}{\text{kgal}} \times \frac{1 \text{ gal}}{0.14 \text{ MMBtu}} \times \frac{1 \text{ kgal}}{1000 \text{ gal}}$$

$$S = 0.36 \%$$

The source is currently combusting No. 2 fuel oil with a sulfur content of 0.35% sulfur, therefore, they are in compliance with this rule.

326 IAC 8-3-5 (Degreasers)

The insignificant cold cleaner degreasers, all constructed after the July 1, 1990 applicability date of this rule, shall comply with the following operation requirements:

- (1) Close the cover whenever articles are not being handled in the degreaser;
- (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases;
- (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

326 IAC 9-1-2 (Carbon monoxide)

Pursuant to 326 IAC 9-1-2(3), no person shall cause or allow the discharge of carbon monoxide from refuse incineration or burning equipment, unless the waste gas stream is burned in a direct-flame afterburner or is controlled by other means approved by the Commissioner.

- (1) All incinerators at the source were constructed prior to the March 21, 1972 applicability date of the rule, and therefore are not subject to this rule.

Compliance Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAM, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in permit Section D are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in permit Section D. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

- (1) Boilers #2, #3 and #5 have applicable compliance monitoring conditions as specified below:
 - (a) The Permittee shall record the total static pressure drop across the cyclones used in conjunction with Boiler #2, and Boiler #3, and the spark rate, primary and secondary AC voltage and amperage for the electrostatic precipitator used in conjunction with Boilers #2, #3 and #5, at least once every four hours when the boilers are in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the cyclone used in conjunction with Boiler #2 shall be maintained within the range specified in the Preventive Maintenance Plan, the cyclone used in conjunction with Boiler #3 shall be maintained within the range specified in the Preventive Maintenance Plan, and for the electrostatic precipitator used in conjunction with Boilers #2, #3 and #5, the spark rate, the primary and secondary AC voltages, and the primary and secondary AC amperages shall be maintained within the ranges specified

in the Preventive Maintenance Plan, or at ranges established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

These monitoring conditions are necessary because the control equipment for the boilers must operate properly to ensure compliance with 326 IAC 6-1-13 (Particulate Matter Emissions).

- (2) Boiler #4 has applicable compliance monitoring conditions as specified below:
- (a) Daily visible emissions notations of the boiler stack exhaust shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

These monitoring conditions are necessary to ensure compliance with 326 IAC 6-1-13 (Particulate Matter Emissions) and 326 IAC 5-1 (Opacity).

- (3) The science building incinerator has applicable compliance monitoring conditions as specified below:
- (a) Daily visible emission notations of stack exhaust from this incinerator, shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

These monitoring conditions are necessary to ensure compliance with 326 IAC 4-2 (Incinerator Requirements) and 326 IAC 5-1 (Opacity).

Air Toxic Emissions

Indiana presently requests applicants to provide information on emissions of the 187 hazardous air pollutants set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (OAM) Part 70 Application Form GSD-08.

- (a) This source will emit levels of air toxics less than those which constitute a major source according to Section 112 of the 1990 Amendments to the Clean Air Act.

Conclusion

The operation of the boilers and incinerators at this university shall be subject to the conditions of the attached proposed **Part 70 Permit No. T167-7546-00010**.

**Indiana Department of Environmental Management
Office of Air Management
and
Vigo County Air Pollution Control**

Addendum to the
Technical Support Document for Part 70 Operating Permit

Source Name:	Indiana State University
Source Location:	951 Sycamore Street, Terre Haute, Indiana 47809
County:	Vigo
SIC Code:	8221
Operation Permit No.:	T167-7546-00010
Permit Reviewer:	Rob Harmon

On September 9, 1998, Vigo County Air Pollution Control (VCAPC) and the Office of Air Management (OAM) had a notice published in the Terre Haute Tribune Star, Terre Haute, Indiana, stating that Indiana State University had applied for a Part 70 Operating Permit to operate boilers and incinerators at a university. The notice also stated that VCAPC and OAM proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

On October 8, 1998, Indiana State University submitted comments on the proposed Part 70 permit. The summary of the comments is as follows (~~strikeout~~ indicates language removed, **redline** indicates language added):

1. Comment

Indiana State University has made the decision to remove the incinerator located at Student Services Building (Source EU-003) from service. The unit has been made inoperable and will not need to be included in the permit.

Response

All language related to EU-003 in the permit and TSD was removed. However, the conditions under Section D.2 remain because they still apply to the science building incinerator. That was not clearly stated in the Public Noticed draft permit.

2. Comment

D.1.3 No. 5 boiler should be allowed to operate at the same time as #2 and #3 boilers as long as No. 5 boiler is not burning coal.

Response

The current operating permits as well as 326 IAC 6-1-13 are not fuel specific. They simply state that those boilers may not operate simultaneously. Therefore, this change can not be made.

3. Comment
Many of the required forms and reports presented in the proposed permit are awkward to use and ISU wants to submit alternate reports (reviewed and approved by VCAPC) which contains the same information.

Response

Alternate forms are acceptable so long as they contain, as a minimum, all the information required on the forms developed in this permit.

Upon further review, VCAPC and OAM have made the following changes to the final Part 70 permit as well as all supporting documentation:

1. The name of the assistant commissioner on the Part 70 permit has been changed from ~~Felicia R. George~~ to **Janet G. McCabe** due to a change in the position.
2. The standard language for coal boilers sulfur dioxide determinations has been revised. The coal portion of Condition D.1.8 was changed to the following:

D.1.8 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 2-7-5(3)(A)] [326 IAC 2-7-6]

Pursuant to 326 IAC 7-2, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed 5.64 pounds per million BTU heat input. Compliance shall be determined utilizing one of the following options:

- (a) Coal sampling and analysis shall be performed using one of the following procedures:
 - (1) Minimum Coal Sampling Requirements and Analysis Methods [326 IAC 3-7-2(b)(3)]:
 - (A) The coal sample acquisition point shall be at a location where representative samples of the total coal flow to be combusted by the facility or facilities may be obtained. A single as-bunkered or as-burned sampling station may be used to represent the coal to be combusted by multiple facilities using the same stockpile feed system;
 - (B) Coal shall be sampled at least three (3) times per day and at least one (1) time per eight (8) hour period unless no coal is bunkered during the preceding eight (8) hour period;
 - (C) Minimum sample size shall be five hundred (500) grams;
 - (D) Samples shall be composited and analyzed at the end of each calendar month;
 - (E) Preparation of the coal sample, heat content analysis, and sulfur content analysis shall be determined pursuant to 326 IAC 3-7-2(c), (d), (e); or
 - (2) Sample and analyze the coal pursuant to 326 IAC 3-7-2(a);
 - (3) Sample and analyze the coal pursuant to 326 IAC 3-7-3; or

- (b) Upon written notification to IDEM and VCAPC by a facility owner or operator, continuous emission monitoring data collected and reported pursuant to 326 IAC 3-5-1 may be used as the means for determining compliance with the emission limitations in 326 IAC 7-2. Upon such notification, the other requirements of 326 IAC 7-2 shall not apply. [326 IAC 7-2-1(e)]
- (c) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the boiler, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6, which is conducted with such frequency as to generate the amount of information required by (a) or (b) above. [326 IAC 7-2-1(b)]

A determination of noncompliance pursuant to any of the methods specified in (a), (b), or (c) above shall not be refuted by evidence of compliance pursuant to the other method.

- 3. The entire condition B.27 (Credible Evidence) was removed from the permit. The IDEM and VCAPC now believe that this condition is not necessary and have removed it from the permit. The issues regarding credible evidence can adequately be addressed during a showing of compliance or noncompliance. Indiana's statutes, and the rules adopted under their authority, govern the admissibility of evidence in any proceeding. Indiana law contains no provisions that limit the use of any credible evidence and an explicit statement is not required in the permit.
- 4. IDEM and VCAPC revised the standard language on Condition C.3 (Opacity) to more accurately reflect the current rule language.

C.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (~~Visible Emissions~~ Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), ~~visible emissions opacity~~ shall meet the following, unless otherwise stated in this permit:

- (a) ~~Visible emissions~~ Opacity shall not exceed an average of thirty percent (30%) ~~opacity in twenty-four (24) consecutive readings~~, any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) ~~Visible emissions~~ Opacity shall not exceed sixty percent (60%) ~~opacity~~ for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

- 5. The reference in Condition D.2.5 was corrected to say D.2.4

D.2.5 Record Keeping Requirements

- (a) To document compliance with Condition ~~D.2.4~~ D.2.5, the Permittee shall maintain records of daily visible emission notations of the stack exhaust from this incinerator.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

The page numbering and the Table of Contents were upgraded to reflect the changes.

Appendix A: Emissions Calculations
 Bituminous Coal Combustion Only - Spreader Stoker
 10 < MM BTU/HR <100
 Small Industrial Boiler - EU-01

Source Name: Indiana State University
 Address City IN Zip: 210 North 7th Street, Terre Haute, Indiana 47809
 T: 167-7546-00010
 Plt ID: 167-00010
 Reviewer: Dana L. Brown
 Date: February 23, 1998

Heat Input Capacity MMBtu/hr	Potential Throughput ton/yr	Sulfur Content %
56.25	2.16	2.1

	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/Ton	66.00	13.20	80.33 (38S)	13.70	0.05	5.00
Potential Emission in tons/yr	625.39	125.08	1609.16	129.82	0.48	47.38

Methodology

MMBtu = 1,000,000 Btu

Emission Factors are from AP 42, Chapter 1.1, Tables 1.1-1, 1.1-3, 1.1-11, SCC #1-01-002-04

Emission (tons/yr) = Throughput (MMBtu/yr) x Emission Factor (lb/MMBtu)/2,000 lb/ton

Appendix A: Emissions Calculations
 Bituminous Coal Combustion Only - Overfeed Stoker
 10 < MM BTU/HR <100
 Small Industrial Boiler - EU-02

Source Name: Indiana State University
 Address City IN Zip: 210 North 7th Street, Terre Haute, Indiana 47809
 T: 167-7546-00010
 Plt ID: 167-00010
 Reviewer: Dana L. Brown
 Date: February 23, 1998

Heat Input Capacity MMBtu/hr	Potential Throughput ton/yr	Sulfur Content %
75.00	2.88	2.1

	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/Ton	16.00	6.00	38.00	7.50	0.05	6.00
Potential Emission in tons/yr	202.15	75.80	1013.00	94.76	0.64	75.80

Methodology

MMBtu = 1,000,000 Btu

Emission Factors are from AP 42, Chapter 1.1, Tables 1.1-1, 1.1-3, 1.1-11, SCC #1-01-002-04

Emission (tons/yr) = Throughput (MMBtu/yr) x Emission Factor (lb/MMBtu)/2,000 lb/ton

Appendix A: Emissions Calculations
 Bituminous Coal Combustion Only - Cyclone
 10 < MM BTU/HR <100
 Small Industrial Boiler - EU-03

Source Name: Indiana State University
 Address City IN Zip: 210 North 7th Street, Terre Haute, Indiana 47809
 T: 167-7546-00010
 Plt ID: 167-00010
 Reviewer: Dana L. Brown
 Date: February 23, 1998

Heat Input Capacity MMBtu/hr	Potential Throughput ton/yr	Sulfur Content %	Ash Content %
156.25	6.01	2.1	8.3

	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/Ton	16.60	2.16	38.00	33.80	0.11	0.50
Potential Emission in tons/yr	436.93	56.80	2110.42	889.65	2.90	13.16

Methodology

MMBtu = 1,000,000 Btu

Emission Factors are from AP 42, Chapter 1.1, Tables 1.1-1, 1.1-3, 1.1-11, SCC #1-01-002-04

Emission (tons/yr) = Throughput (MMBtu/yr) x Emission Factor (lb/MMBtu)/2,000 lb/ton

Company Name: Indiana State University
 Address, City IN Zip: 210 North 7th Street, Terre Haute, Indiana 47809
 T: T167-7546-00010
 Plt ID: 167-00010
 Reviewer: Dana L. Brown
 Date: February 23, 1998

Heat Input Capacity
 MMBtu/hr

Potential Throughput
 kgals/year

S = Weight % Sulfur
 0.35

156.25

9776.78571428572

	Pollutant				
	PM	SO ₂	NO _x	VOC	CO
Emission Factor in lb/kgal	2.0	49.7 (142.0S)	20.0	0.20	5.0
Potential Emission in tons/yr	9.8	243.0	97.8	1.0	24.4

Methodology

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM Btu

Emission Factors are from AP 42, Tables 1.3-2 and 1.3-4 (SCC 1-02-005-01/02/03)

Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Appendix A: Emission Calculations
 Natural Gas Combustion Only
 MMBTU/HR >100
 Utility Boiler

Company Name: Indiana State University
 Address City IN Zip: 210 North 7th Street, Terre Haute, Indiana 47809
 T: 167-7546-00010
 Plt ID: 167-00010
 Reviewer: Dana L. Brown
 Date: February 23, 1998

Heat Input Capacity
 MMBtu/hr

Potential Throughput
 MMCF/yr

156.3

1368.8

	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	5.0	5.0	0.6	550.0	1.4	40.0
Potential Emission in tons/yr	3.421875	3.421875	0.410625	376.40625	0.958125	27.375

Methodology

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors for NOx: Uncontrolled = 550, Low NOx Burner = 81, Flue gas recirculation = 53

Emission Factors for CO: Uncontrolled = 40, Low NOx Burner = ND, Flue gas recirculation = ND

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-01-006-01, 1-01-006-04

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Company Name: Indiana State University
 Address, City IN Zip: 210 North 7th Street, Terre Haute, Indiana 47809
 T: T167-7546-00010
 Plt ID: 167-00010
 Reviewer: Dana L. Brown
 Date: February 23, 1998

Heat Input Capacity
 MMBtu/hr

93.75

Potential Throughput
 kgals/year

5866.07142857143

S = Weight % Sulfur

0.35

Emission Factor in lb/kgal

Potential Emission in tons/yr

	PM	SO ₂	Pollutant NO _x	VOC	CO
Emission Factor in lb/kgal	2.0	49.7 (142.0S)	20.0	0.20	5.0
Potential Emission in tons/yr	5.9	145.8	58.7	0.6	14.7

Methodology

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM Btu

Emission Factors are from AP 42, Tables 1.3-2 and 1.3-4 (SCC 1-02-005-01/02/03)

Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

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Appendix A: Emission Calculations
 Natural Gas Combustion Only
 MMBTU/HR >100
 Utility Boiler-EU04

Company Name: Indiana State University
 Address City IN Zip: 210 North 7th Street, Terre Haute, Indiana 47809
 T: 167-7546-00010
 Plt ID: 167-00010
 Reviewer: Dana L. Brown
 Date: February 23, 1998

Heat Input Capacity
 MMBtu/hr

Potential Throughput
 MMCF/yr

93.8

821.3

	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	5.0	5.0	0.6	550.0	1.4	40.0
Potential Emission in tons/yr	2.053125	2.053125	0.246375	225.84375	0.574875	16.425

Methodology

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors for NOx: Uncontrolled = 550, Low NOx Burner = 81, Flue gas recirculation = 53

Emission Factors for CO: Uncontrolled = 40, Low NOx Burner = ND, Flue gas recirculation = ND

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-01-006-01, 1-01-006-04

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

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