



*Mitchell E. Daniels, Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
MC 61-53 IGCN 1003  
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(800) 451-6027  
[www.IN.gov/idem](http://www.IN.gov/idem)

TO: Interested Parties / Applicant  
DATE: November 19, 2007  
RE: Ball State university / 035-24456-00002  
FROM: Nisha Sizemore  
Chief, Permits Branch  
Office of Air Quality

### **Notice of Decision: Approval – Effective Immediately**

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-17-3-4 and 326 IAC 2, this permit modification is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of a Title V operating permit or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impracticable to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency  
401 M Street  
Washington, D.C. 20406

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We make Indiana a cleaner, healthier place to live.*

---

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November 19, 2007

Mr. David Whitmer  
Ball State University  
2000 W. University Avenue  
Muncie, IN 47306

Re: 035-24456-00002  
First Significant Permit Modification to  
Part 70 No.: T035-16280-00002

Dear Mr. Whitmer:

Ball State University was issued a Part 70 Operating Permit on February 2, 2007 for a stationary steam generating station. A letter requesting changes to this permit was received on March 12, 2007. Pursuant to the provisions of 326 IAC 2-7-12 a Significant Permit Modification to this permit is hereby approved as described in the attached Technical Support Document.

The modification consists of revising emission unit descriptions, updating general recordkeeping conditions, and the inclusion of a federally enforceable source-wide emission limitation to limit the potential to emit of individual hazardous air pollutants (HAP) to less than ten (10) tons per year and combined HAP to less than twenty-five (25) tons per year.

All other conditions of the permit shall remain unchanged and in effect. Please find attached a copy of the revised permit.

Pursuant to Contract No. A305-5-65, IDEM, OAQ has assigned the processing of this application to Eastern Research Group, Inc., (ERG). Therefore, questions should be directed to Tracy DeHaven Parham, ERG, 1600 Perimeter Park Drive, Morrisville, North Carolina 27560, or call (919) 468-7901 to speak directly to Ms. Parham. Questions may also be directed to Duane Van Laningham at IDEM, OAQ, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana, 46204-2251, or call (800) 451-6027, and ask for Duane Van Laningham or extension 3-6878, or dial (317) 233-6878.

Sincerely,

Origin signed by

Nisha Sizemore, Chief  
Permits Branch  
Office of Air Quality

ERG/TDP  
Attachments

cc: File - Delaware County  
U.S. EPA, Region V  
Delaware County Health Department  
Air Compliance Section Inspector  
Compliance Data Section  
Administrative and Development  
Billing, Licensing and Training Section



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## PART 70 OPERATING PERMIT RENEWAL OFFICE OF AIR QUALITY

**Ball State University  
2000 University Avenue  
Muncie, Indiana 47306**

(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.

**The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. 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. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.**

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 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.: T035-16280-00002	
Issued by:  Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: February 2, 2007  Expiration Date: February 2, 2012
First Significant Permit Modification No. 035-24456-00002	Pages Affected: Entire Permit
Issued by: Origin signed by  Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: November 19, 2007  Expiration Date: February 2, 2012

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Permit Reviewer: ERG/TDP

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## SECTION A

## SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). 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)] [326 IAC 2-7-1(22)]

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The Permittee owns and operates a stationary steam generating station.

Source Address:	2000 University Avenue, Muncie, Indiana 47306
Mailing Address:	Ball State University, Muncie, Indiana 47306
General Source Phone Number:	(765) 285-2830
SIC Code:	8221
County Location:	Delaware
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD Rules 1 of 28 Source Categories

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

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

- (a) One (1) coal-fired boiler, installed in 1941, identified as Boiler 4, with a maximum heat input capacity of 31 MMBtu per hour, and exhausting to stack #2.
- (b) One (1) coal-fired boiler, installed in 1941, identified as Boiler 5, with a maximum heat input capacity of 31 MMBtu per hour, and exhausting to stack #2.
- (c) One (1) coal-fired boiler, installed in 1955, identified as Boiler 6, with a maximum heat input capacity of 31 MMBtu per hour, and exhausting to stack #1.
- (d) One (1) coal-fired boiler, installed in 1958, identified as Boiler 7, with a maximum heat input capacity of 31 MMBtu per hour, and exhausting to stack #1.
- (e) One (1) no. 2 fuel oil/natural gas-fired boiler, installed in 1961, identified as Boiler 8, with a maximum heat input capacity of 63 MMBtu per hour and a steam capacity of 50,000 pounds of steam per hour, and exhausting to stack #3.
- (f) One (1) no. 2 fuel oil/natural gas-fired boiler, installed in 1966, identified as Boiler 9, with a maximum heat input capacity of 75 MMBtu per hour and a steam capacity of 60,000 pounds of steam per hour, and exhausting to stack #3.
- (g) One (1) no. 2 fuel oil/natural gas-fired boiler, installed in 1970, identified as Boiler 10, with a maximum heat input capacity of 75 MMBtu per hour and a steam capacity of 60,000 pounds of steam per hour, and exhausting to stack #4.

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

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

- (a) Degreasing operations that do not exceed 145 gallons per 12 months, that are not subject to 326 IAC 20-6, including degreasing operation D-2, installed in 1983. [326 IAC 8-3-2]

- (b) Covered conveyors for coal or coke conveying of less than or equal to 360 tons per day. [326 IAC 6-3-2]
- (c) Coal bunker and coal scale exhausts and associated dust collector vents. [326 IAC 6-3-2]
- (d) 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 cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations. [326 IAC 6-3-2]
- (e) Asbestos abatement projects. [326 IAC 14-10]
- (f) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]

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

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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 Definitions [326 IAC 2-7-1]**

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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, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

### **B.2 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5] [326 IAC 2-7-4(a)(1)(D)] [IC 13-15-3-6(a)]**

- 
- (a) This permit, T035-16280-00002, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal 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.

### **B.3 Term of Conditions [326 IAC 2-1.1-9.5]**

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Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

### **B.4 Enforceability [326 IAC 2-7-7]**

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Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

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

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

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

### **B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]**

- 
- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, 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. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

### **B.8 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]**

- 
- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a responsible official of truth, accuracy, and completeness. This certification 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, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

**B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]**

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- (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. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 of each year to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

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, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
  - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and
  - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ, 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.10 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]**

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- (a) The Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) for the source as described in 326 IAC 1-6-2. At a minimum, the PMPs shall include:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ,. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.11 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.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a 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, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or

Telephone Number: 317-233-0178 (ask for Compliance Section)

Facsimile Number: 317-233-6865

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

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). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ, 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, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) 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.
- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

B.12 Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced 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 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

- (b) 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, IDEM, OAQ, 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.

- (c) 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. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) 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.
- (e) 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).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]

- (a) All terms and conditions of permits established prior to T035-16280-00002 and issued pursuant to permitting programs approved into the state implementation plan have been either
  - (1) incorporated as originally stated,
  - (2) revised under 326 IAC 2-7-10.5, or
  - (3) deleted under 326 IAC 2-7-10.5.

B.14 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.15 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 Data Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

**B.16 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]

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- (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)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, 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, OAQ, 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, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

**B.17 Permit Renewal** [326 IAC 2-7-3] [326 IAC 2-7-4] [326 IAC 2-7-8(e)]

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- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ, 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). The renewal application does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:

- (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
- (2) 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, OAQ, on or before the date it is due.
- (c) 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, OAQ,, takes 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, OAQ,, any additional information identified as being needed to process the application.

B.18 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

- (a) Permit amendments and modifications are governed by 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 Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (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.19 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) 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.20 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

- (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 preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

(3) The changes do not result in emissions which exceed the limitations provided in 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 Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

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

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

(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). 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 is not considered an application form, report or compliance certification. Therefore, the notification 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 emissions increases and decreases at 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, OAQ, 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.21 Source Modification Requirement [326 IAC 2-7-10.5]**

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A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.

**B.22 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2] [IC 13-30-3-1] [IC 13-17-3-2]**

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Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, 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) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

**B.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]**

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- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:  
  
Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
The application 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) 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.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]**

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- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ, the applicable fee is due April 1 of each year.

- (b) Except as provided in 326 IAC 2-7-19(e), 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 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.25 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314][326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

**SECTION C**

**SOURCE OPERATION CONDITIONS**

Entire Source

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

**C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]**

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply and shall not exceed 0.551 pounds per hour.

**C.2 Opacity [326 IAC 5-1]**

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

- (a) Opacity shall not exceed an average of forty percent (40%) in 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.3 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.4 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.5 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.6 Stack Height [326 IAC 1-7]**

The Permittee shall comply with the applicable 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. The provisions of 326 IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.

**C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]**

- (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 Quality  
100 North Senate Avenue  
MC 61-52 IGCN 1003  
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. 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 applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable 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) **Demolition and renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **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 to use an Indiana Accredited Asbestos inspector is not federally enforceable.

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

#### **C.8 Performance Testing [326 IAC 3-6]**

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- (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 any

applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

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 Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

#### **Compliance Requirements [326 IAC 2-1.1-11]**

##### C.9 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

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

##### C.10 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

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).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a source modification shall be implemented when operation begins.

##### C.11 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

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

**C.12 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]**

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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 Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

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

The ERP does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) If the ERP is disapproved by IDEM, OAQ, 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, OAQ, 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.13 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]**

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If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

**C.14 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]**

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(a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:

(1) initial inspection and evaluation;

(2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or

- (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
  - (1) monitoring results;
  - (2) review of operation and maintenance procedures and records;
  - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
  - (1) monitoring data;
  - (2) monitor performance data, if applicable; and
  - (3) corrective actions taken.

**C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]**

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- (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 response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
  - (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, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
  - (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do 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.16 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]**

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- (a) Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit by July 1 of each year an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:
    - (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
    - (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1 (32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management  
Technical Support and Modeling Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-50 IGCN 1003  
Indianapolis, Indiana 46204-2251

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

- (b) The 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, OAQ, on or before the date it is due.

C.17 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2] [326 IAC 2-3]

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- (a) Records of all required monitoring data, reports and support information required by this permit 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 physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.
- (c) If there is a “project” (as defined in 326 IAC 2-2-1 (qq)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a “major modification” (as defined in 326 IAC 2-2-1 (ee)) and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1 (rr) and/or IAC 2-3-1 (mm)), the Permittee shall comply with following:
  - (1) Before beginning actual construction of the “project” (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll) at an existing emissions unit, document and maintain the following records:
    - (A) A description of the project.
    - (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
    - (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
      - (i) Baseline actual emissions;
      - (ii) Projected actual emissions;
      - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1(mm)(2)(A)(iii); and
      - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.

- (2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and
- (3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.18 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2] [326 IAC 2-3]

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- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (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 Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- (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, OAQ, on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (f) If the Permittee is required to comply with the recordkeeping provisions of (c) in Section C- General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:
  - (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1(xx) and/or 326 IAC 2-3-1(qq), for that regulated NSR pollutant, and
  - (2) The emissions differ from the preconstruction projection as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(ii).
- (g) The report for project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:
  - (1) The name, address, and telephone number of the major stationary source.

- (2) The annual emissions calculated in accordance with (c)(2) and (3) in Section C-General Record Keeping Requirements.
- (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
- (4) Any other information that the Permittee deems fit to include in this report,

Reports required in this part shall be submitted to:

Indiana Department of Environmental Management  
Air Compliance Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

- (h) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C - General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

### **Stratospheric Ozone Protection**

#### **C.19 Compliance with 40 CFR 82 and 326 IAC 22-1**

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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)]:**

- (a) One (1) coal-fired boiler, installed in 1941, identified as Boiler 4, with a maximum heat input capacity of 31 MMBtu per hour, and exhausting to stack #2;
- (b) One (1) coal-fired boiler, installed in 1941, identified as Boiler 5, with a maximum heat input capacity of 31 MMBtu per hour, and exhausting to stack #2;
- (c) One (1) coal-fired boiler, installed in 1955, identified as Boiler 6, with a maximum heat input capacity of 31 MMBtu per hour, and exhausting to stack #1; and
- (d) One (1) coal-fired boiler, installed in 1958, identified as Boiler 7, with a maximum heat input capacity of 31 MMBtu per hour, and exhausting to stack #1.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

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

**D.1.1 Hazardous Air Pollutants (HAP)**

The total amount of coal input to Boilers 4, 5, 6, and 7 shall be limited such that HCl emissions are less than 9.9 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with this limit, in conjunction with the sum of the potential to emit of the following HAPs from Boilers 4, 5, 6, 7 and Boilers 8, 9, and 10 (Section D.2):

- (i) Ammonia
- (ii) Arsenic
- (iii) Benzene
- (iv) Beryllium
- (v) Cadmium
- (vi) Chromium
- (vii) Cobalt
- (viii) Dichlorobenzene
- (ix) Formaldehyde
- (x) Hexane
- (xi) Hydrogen Fluoride
- (xii) Lead
- (xiii) Mercury
- (xiv) Manganese
- (xv) Nickel
- (xvi) Phosphorus
- (xvii) Selenium
- (xviii) Toluene

will limit the source wide HAPs to less than 25 tons of total HAPs per twelve (12) consecutive month period, with compliance determined at the end of each month. Therefore, the requirements of the Clean Air Act, Section 112(j) are not applicable.

**D.1.2 Particulate Matter (PM)**

Pursuant to 326 IAC 6-2-3 (Particulate Matter Emission Limitations for Sources of Indirect Heating), the PM emissions from each boiler (4, 5, 6, and 7) shall be limited to 0.75 pounds per MMBtu heat input.

This limitation is based on the following equation:

$$Pt = \frac{C \times a \times h}{76.5 \times Q^{0.75} \times N^{0.25}}$$

where

C = 50 u/m<sup>3</sup>

Pt = emission rate limit (lbs/MMBtu)

Q = total source heat input capacity (MMBtu/hr) = 337 MMBtu/hr

N = number of stacks

a = plume rise factor (0.67)

h = stack height (ft)

**D.1.3 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1.1-1] [326 IAC 7-2-1]**

Pursuant to 326 IAC 7-1.1 (SO<sub>2</sub> Emissions Limitations) the SO<sub>2</sub> emissions from each boiler (4, 5, 6, and 7) shall not exceed six and zero-tenths (6.0) pounds per million Btu heat input. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.

**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 their control devices.

**Compliance Determination Requirements**

**D.1.5 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 2-7-5(3)(A)] [326 IAC 2-7-6][326 IAC 20]**

Pursuant to 326 IAC 7-2, the Permittee shall demonstrate that:

The sulfur dioxide emissions from each boiler (4, 5, 6, and 7) do not exceed six (6.0) pounds per MMBtu.

Compliance shall be determined utilizing one of the following options:

- (a) Providing vendor analysis of coal delivered, if accompanied by a certification from the fuel supplier, as described under 40 CFR 60.48c(f)(3). The certification shall include:
  - (1) The name of the coal supplier; and
  - (2) The location of the coal when the sample was collected for analysis to determine the properties of the coal, specifically including whether the coal was sampled as delivered to the affected facility or whether the coal was collected from coal in storage at the mine, at a coal preparation plant, at a coal supplier's facility, or at another location. The certification shall include the name of the coal mine (and coal seam), coal storage facility, or coal preparation plant (where the sample was collected); and
  - (3) The results of the analysis of the coal from which the shipment came (or of the shipment itself) including the sulfur content, moisture content, ash content, and heat content; and
  - (4) The methods used to determine the properties of the coal; or
- (b) Sampling and analyzing the coal by using one of the following procedures:
  - (1) Minimum Coal Sampling Requirements and Analysis Methods:
    - (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 one (1) time per day;
  - (C) Minimum sample size shall be five hundred (500) grams;
  - (D) Samples shall be composited and analyzed at the end of each calendar quarter;
  - (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 3-7-3.
- (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, 6A, 6C, 8; or other methods as approved by the Commissioner 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.1.6 HAP Emissions

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Compliance with the HAP limit in Condition D.1.1 shall be demonstrated using the following equations:

- (1) The HCl emissions shall be calculated according to the following equation:

$$E_{\text{HCl}} = (1.028 * C_{\text{Cl}} * Q_{\text{Coal}})/10^6 \dots\dots \text{Equation (1)}$$

Where

- $E_{\text{HCl}}$  = Emissions of Hydrogen Chloride in tons per month
- 1.028 = Molecular weight ratio of Hydrogen Chloride to Chlorine
- $C_{\text{Cl}}$  = Chlorine content in coal, dry basis (ppm)
- $Q_{\text{Coal}}$  = Coal Consumption in tons per month

- (2) The HF emissions shall be calculated according to the following equation:

$$E_{\text{F}} = (1.053 * C_{\text{F}} * Q_{\text{Coal}})/10^6 \dots\dots \text{Equation (2)}$$

Where

- $E_{\text{F}}$  = Emissions of HF in tons per month
- 1.053 = Molecular weight ratio of Hydrogen Fluoride to Fluorine
- $C_{\text{F}}$  = Fluorine content in coal, dry basis (ppm)
- $Q_{\text{Coal}}$  = Coal Consumption in dry tons per month

- (3) The Phosphorus emissions shall be calculated according to the following equation:

$$E_{\text{P}} = (C_{\text{P}} * Q_{\text{Coal}})/10^6 \dots\dots \text{Equation (3)}$$

Where

- $E_{\text{P}}$  = Emissions of Phosphorus in tons per month
- $C_{\text{P}}$  = Phosphorus content in coal, dry basis (ppm)
- $Q_{\text{Coal}}$  = Coal Consumption in dry tons per month

#### D.1.7 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

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To demonstrate compliance with the PM limitation in Condition D.1.2, the Permittee shall conduct a performance stack test on one of the four boilers, identified as Boiler 4, Boiler 5, Boiler 6, or Boiler 7, using methods approved by the Commissioner. This testing shall be repeated once every five years following this valid compliance demonstration using a different boiler for each stack test. Testing shall be conducted in accordance with Section C- Performance Testing.

#### D.1.8 Hydrogen Chloride Emissions and Chlorine, Fluorine, and Phosphorus Content

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- (a) The coal consumption ( $Q_{\text{Coal}}$ ) in Condition D.1.6 shall be determined each month based on the actual coal burned in the Boilers 4, 5, 6, and 7.
- (b) Coal sampling for determining chlorine, fluorine, and phosphorus content shall be performed using one of the procedures required in the Condition D.1.5(a) or by the fuel supplier as specified in Condition D.1.8 (e).
- (c) Coal samples shall be analyzed at least once per month and whenever new coal is bunkered or burned.
- (d) Samples shall be composited as required in Condition D.1.5. The samples shall be analyzed for total chlorine, fluorine, phosphorus, and moisture using one of the following methods:
  - (1) ASTM D6721-01 Standard Test Method for Determination of Chlorine in Coal by Oxidative Hydrolysis Microcoulometry.
  - (2) ASTM D4208-02 Standard Test Method for Total Chlorine in Coal by the Oxygen Bomb Combustion/Ion Selective Electrode Method.
  - (3) ASTM D2361-02 Standard Test Method for Chlorine in Coal.
  - (4) ASTM D3173-03 Standard Test Method for Moisture in the Analysis Sample of Coal and Coke.
  - (5) ASTM D3302-02a Standard Test Method for Total Moisture in Coal.
- (e) The fuel sampling and analysis requirement in this section may also be conducted by the fuel supplier using one of the following methods:
  - (1) ASTM D6721-01 Standard Test Method for Determination of Chlorine in Coal by Oxidative Hydrolysis Microcoulometry.
  - (2) ASTM D4208-02 Standard Test Method for Total Chlorine in Coal by the Oxygen Bomb Combustion/Ion Selective Electrode Method.
  - (3) ASTM D2361-02 Standard Test Method for Chlorine in Coal.
  - (4) ASTM D3173-03 Standard Test Method for Moisture in the Analysis Sample of Coal and Coke.
  - (5) ASTM D3302-02a Standard Test Method for Total Moisture in Coal.

#### D.1.9 Hazardous Air Pollutant Emissions

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- (a) The coal consumption ( $Q_{\text{Coal}}$ ) in Condition D.1.6 shall be determined each month based on the actual coal burned in Boilers 4, 5, 6, and 7.
- (b) Coal sampling for determining the hazardous air pollutant concentration identified in condition D.1.6 shall be performed at least once per month and whenever new coal (including different type of coal from different supplier) is bunkered or burned, using one of the procedures required in the item (d) or by the fuel supplier as specified in (e).
- (c) Coal sampling for determining the hazardous air pollutant concentration identified in condition D.1.6 shall be performed quarterly using one of the procedures required in the item (d) or by the fuel supplier as specified in (e).
- (d) The samples shall be analyzed for the trace HAP substances identified in condition D.1.5

and moisture using one of the following methods:

1. ASTM D3683-04 Standard Test Method for Trace Elements in Coal and Coke Ash by Atomic Absorption.
  2. ASTM D3173-03 Standard Test Method for Moisture in the Analysis Sample of Coal and Coke.
  3. ASTM D3302-02a Standard Test Method for Total Moisture in Coal.
- (e) The fuel sampling and analysis requirement in this section may also be conducted by the fuel supplier using one of the following methods:
1. ASTM D3683-04 Standard Test Method for Trace Elements in Coal and Coke Ash by Atomic Absorption.
  2. ASTM D3173-03 Standard Test Method for Moisture in the Analysis Sample of Coal and Coke.
  3. ASTM D3302-02a Standard Test Method for Total Moisture in Coal.

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

#### **D.1.10 Visible Emissions Notations**

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- (a) Visible emission notations of each boiler stack (1 and 2) exhaust shall be performed once per day during normal daylight operations. 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) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C – Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C – Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

#### **D.1.11 Record Keeping Requirements**

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- (a) To document compliance with Conditions D.1.1 and D.1.3, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the SO<sub>2</sub> emission limits established in Condition D.1.1 and D.1.3.
  - (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;
  - (4) Sulfur dioxide emission rates; and

- (5) Vendor analysis of coal and coal supplier certification.
- (b) To document compliance with Condition D.1.6, D.1.8, and D.1.9, the Permittee shall maintain records in accordance with (1) and (2) below. Records maintained for (1) and (2) shall be sufficient to establish a 12 consecutive month annual emissions rate and shall be complete and sufficient to demonstrate compliance with the HCI limits establish in Condition D.1.1.
  - (1) Actual coal usage since last compliance determination period and records of fuel sampling results and all calculations per Condition D.1.6.
  - (2) Chlorine, fluoride, phosphorus, and moisture content in the coal.
- (c) To document compliance with Condition D.1.10, the Permittee shall maintain records of visible emission notations of each boiler stack (1 and 2) exhaust while combusting coal.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.1.12 Reporting Requirements

- (a) A quarterly summary of the information to document compliance with Condition D.1.3 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, 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. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) A quarterly summary of the information to document compliance with Condition D.1.6, D.1.8, and D.1.9 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, 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. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

**SECTION D.2**

**FACILITY OPERATION CONDITIONS**

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

- (e) One (1) no. 2 fuel oil/natural gas-fired boiler, installed in 1961, identified as Boiler 8, with a maximum heat input capacity of 63 MMBtu per hour and a steam capacity of 50,000 pounds of steam per hour, and exhausting to stack #3.
- (f) One (1) no. 2 fuel oil/natural gas-fired boiler, installed in 1966, identified as Boiler 9, with a maximum heat input capacity of 75 MMBtu per hour and a steam capacity of 60,000 pounds of steam per hour, and exhausting to stack #3.
- (g) One (1) no. 2 fuel oil/natural gas-fired boiler, installed in 1970, identified as Boiler 10, with a maximum heat input capacity of 75 MMBtu per hour and a steam capacity of 60,000 pounds of steam per hour, and exhausting to stack #4.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

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

**D.2.1 Particulate Matter (PM)**

Pursuant to 326 IAC 6-2-3 (Particulate Matter Emission Limitations for Sources of Indirect Heating), the PM emissions from each boiler (8, 9, and 10) shall be limited to 0.75 pounds per MMBtu heat input.

This limitation is based on the following equation:

$$Pt = \frac{C \times a \times h}{76.5 \times Q^{0.75} \times N^{0.25}}$$

where

C = 50 u/m<sup>3</sup>

Pt = emission rate limit (lbs/MMBtu)

Q = total source heat input capacity (MMBtu/hr) = 337 MMBtu/hr

N = number of stacks

a = plume rise factor (0.67)

h = stack height (ft)

**D.2.2 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1.1-1] [326 IAC 7-2-1]**

Pursuant to 326 IAC 7-1.1 (SO<sub>2</sub> Emissions Limitations) the SO<sub>2</sub> emissions from each boiler (8, 9, and 10) shall not exceed five-tenths (0.5) pound per million Btu. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.

**D.2.3 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.

**Compliance Determination Requirements**

**D.2.4 Sulfur Dioxide Emissions and Sulfur Content**

Compliance shall be determined utilizing one of the following options.

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths pound per million Btu (0.5 lb/MMBtu) by:
  - (1) Providing vendor analysis of fuel delivered, if accompanied by a certification; or

- (2) Analyzing the oil sample to determine the sulfur content 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; or
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from each boiler (8, 9, and 10), using 40 CFR 60, Appendix A, Method 6, 6A, 6C, 8 or other methods as approved by the Commissioner, in accordance with the procedures in 326 IAC 3-6.

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

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

#### **D.2.5 Visible Emissions Notations**

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- (a) Visible emission notations of the boiler stacks (3 and 4) exhaust shall be performed once per day during normal daylight operations while combusting 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) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C – Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C – Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

#### **D.2.6 Record Keeping Requirements**

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- (a) To document compliance with Condition D.2.2, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken monthly and shall be complete and sufficient to establish compliance with the SO<sub>2</sub> emission limit established in Condition D.2.2.
  - (1) Calendar dates covered in the compliance determination period;
  - (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;
  - (3) To certify compliance when burning natural gas only, the Permittee shall maintain records of fuel used.

If the fuel supplier certification is used to demonstrate compliance, when burning alternate fuels and not determining compliance pursuant to 326 IAC 3-7-4, the following, as a minimum, shall be maintained:

- (4) Fuel supplier certifications;
  - (5) The name of the fuel supplier; and
  - (6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.
- (b) To document compliance with Condition D.2.5, the Permittee shall maintain records of visible emission notations of the boiler stacks (3 and 4) exhaust while combusting fuel oil.
  - (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.2.7 Reporting Requirements

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The natural gas boiler certification shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the six (6) month period being reported.

**SECTION D.3**

**FACILITY OPERATION CONDITIONS**

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

- (a) Degreasing operations that do not exceed 145 gallons per 12 months, that are not subject to 326 IAC 20-6, including degreasing operation D-2, installed in 1983. [326 IAC 8-3-2]
- (b) Covered conveyors for coal or coke conveying of less than or equal to 360 tons per day;
- (c) Coal bunker and coal scale exhausts and associated dust collector vents; and
- (d) 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 cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

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

**D.3.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]**

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations) for cold cleaning operations constructed after January 1, 1980, the owner or operator shall:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

**D.3.2 Particulate [326 IAC 6-3-2]**

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the coal conveyors, coal bunkers and exhausts, and welding operations shall not exceed the pound per hour emission rate established as E in the following formula:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour; and  
P = process weight rate in tons per hour

## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

### PART 70 OPERATING PERMIT CERTIFICATION

Source Name: Ball State University  
Source Address: 2000 University Avenue, Muncie, Indiana 47306  
Mailing Address: 3401 N. Tilotson Avenue, Muncie, Indiana 47306  
Part 70 Permit No.: T035-16280-00002

**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)
- Affidavit (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:

Phone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE BRANCH  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
Phone: 317-233-0178  
Fax: 317-233-6865**

**PART 70 OPERATING PERMIT  
EMERGENCY OCCURRENCE REPORT**

Source Name: Ball State University  
Source Address: 2000 University Avenue, Muncie, Indiana 47306  
Mailing Address: 3401 N. Tilotson Avenue, Muncie, Indiana 47306  
Part 70 Permit No.: T035-16280-00002

**This form consists of 2 pages**

**Page 1 of 2**

- 9** This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
  - The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

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:

Describe the cause of the Emergency:

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

**Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency?    Y    N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
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: \_\_\_\_\_

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
Compliance Data Section**

**PART 70 OPERATING PERMIT  
SEMI-ANNUAL NATURAL GAS FIRED BOILER CERTIFICATION**

Source Name: Ball State University  
Source Address: 2000 University Avenue, Muncie, Indiana 47306  
Mailing Address: 3401 N. Tilotson Avenue, Muncie, Indiana 47306  
Part 70 Permit No.: T035-16280-00002  
Boiler ID:

<input checked="" type="checkbox"/> Natural Gas Only
<input checked="" type="checkbox"/> Alternate Fuel burned
From: _____ To: _____

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:

Phone:

Date:

A certification by the responsible official as defined by 326 IAC 2-7-1(34) is required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**Part 70 Quarterly Report**

Source Name: Ball State University  
Source Address: 2000 University Avenue, Muncie, Indiana 47306  
Part 70 Permit No.: T035-16280-00002  
Facility: Boilers 4, 5, 6, 7 (coal-fired)  
Parameter: SO<sub>2</sub>  
Limit: 6.0 lbs/MMBtu

Month: \_\_\_\_\_ Year: \_\_\_\_\_

Month	Sulfur Content (%)	Heat Content	Fuel usage (gal/month)	SO <sub>2</sub> Emissions (lb/MMBTU)

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

Submitted by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

Attached is signed certification to complete this report.

# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

## Part 70 Quarterly Report

**Source Name:** Ball State University  
**Source Address:** 2000 University Avenue, Muncie, Indiana 47306  
**Mailing Address:** 3401 N. Tilotson Avenue, Muncie, Indiana 47306  
**Part 70 Permit No.:** T035-16280-00002  
**Facility:** Boilers 4, 5, 6, and 7  
**Parameter:** Single HAP and Total HAPs  
**Limit:** Each individual hazardous air pollutant and total hazardous air pollutants are limited to less than 9.9 and 24.9 tons per twelve (12) consecutive month period respectively, with compliance determined at the end of each month.

YEAR:

Month	Column 1	Column 2	Column 3
	Coal Consumption (tons)	HAP Content (%)	Moisture Content (%)
Month 1			
Month 2			
Month 3			

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

Submitted by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

Attached is signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
Compliance Data Section**

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

Source Name: Ball State University  
Source Address: 2000 University Avenue, Muncie, Indiana 47306  
Mailing Address: 3401 N. Tilotson Avenue, Muncie, Indiana 47306  
Part 70 Permit No.: T035-16280-00002

Months: \_\_\_\_\_ to \_\_\_\_\_ Year: \_\_\_\_\_

Page 1 of 2

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".	
<input type="radio"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="radio"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

# Indiana Department of Environmental Management Office of Air Quality

## Addendum to the Technical Support Document for a Significant Permit Modification to a Part 70 Operating Permit

### Source Background and Description

**Source Name:** Ball State University  
**Source Location:** 2000 University Avenue, Muncie, Indiana 47306  
**County:** Delaware  
**SIC Code:** 8221  
**Permit No.:** SPM035-24456-00002  
**Permit Reviewer:** ERG/TDP

On August 3, 2007, the Office of Air Quality (OAQ) had a notice published in the Muncie Star Press in Muncie Indiana, stating that Ball State University had applied for a Significant Permit Modification to a Part 70 Operating Permit to operate a stationary steam generating station. The notice also stated that OAQ 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 August 4, 2007, Ball State University submitted comments on the proposed Significant Permit Modification. The summary of the comments is as follows.

#### Comment 1:

Ball State University requests that the stack testing in Condition D.1.7 be eliminated. This requirement seems redundant considering the input listing of 31 MMBtu/hr for each coal boiler and the requirements for analysis of and limitations placed on the coal.

#### Response to Comment 1:

Testing is necessary for these facilities to verify the control efficiency of the fly ash collectors for the four coal fired boilers and to ensure compliance with the particulate limitations of 326 IAC 6-2 (Condition D.1.2, previously Condition D.1.1). These boilers have the potential to emit greater than 250 tons per year of particulate matter. The boilers cannot meet the particulate limitations without the fly ash collectors in place. The coal analysis required by this permit is not sufficient to demonstrate compliance with the particulate limit of 326 IAC 6-2. Coal analysis is required for these boilers to determine HAP content to show compliance with the Clean Air Act, Section 112(j), and to determine sulfur content to show compliance with 326 IAC 7-2 (Sulfur dioxides). Testing is required once every five (5) years on one (1) of the four (4) boilers, and should not present a significant burden to the facility. No changes have been made to the permit as a result of this comment.

Upon further review, the OAQ has decided to make the following revisions to the permit (bolded language has been added, the language with a line through it has been deleted). The Table of Contents has been modified, if applicable, to reflect these changes.

1. 40 CFR 63, Subpart DDDDD was vacated by the U.S. Court of Appeals on July 30, 2007. Since the federal rule has been vacated, 326 IAC 20-95, which previously incorporated 40 CFR 63, Subpart DDDDD by reference, has also been vacated.

The Permittee wishes to continue to operate under federally enforceable minor HAP limits, such that the requirements of the Clean Air Act, Section 112(j) do not apply. Therefore, the facility will maintain the minor HAP limits. All references to 326 IAC 20-95 and 40 CFR 63, Subpart DDDDD have been removed from the permit. The permit has been modified as follows:

D.1.1 ~~NESHAP Minor Limit [40 CFR Part 63, Subpart A] [40 CFR Part 63, Subpart DDDDD] [326 IAC 20-4]~~ **Hazardous Air Pollutants (HAP)**

---

...

will limit the source wide HAPs to less than 25 tons of total HAPs per twelve (12) consecutive month period, with compliance determined at the end of each month. Therefore, the requirements of ~~326 IAC 20-95-1 (NESHAP) and 40 CFR 63, Subpart DDDDD~~ are **the Clean Air Act, Section 112(j) are** not applicable.

2. IDEM, OAQ has corrected a typographical error in Condition D.1.7 as follows:

D.1.7 ~~Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]~~

---

To demonstrate compliance with the PM limitation in Condition ~~D.1.4~~ **D.1.2**, the Permittee shall conduct a performance stack test on one of the four boilers, identified as Boiler 4, Boiler 5, Boiler 6, or Boiler 7, using methods approved by the Commissioner. This testing shall be repeated once every five years following this valid compliance demonstration using a different boiler for each stack test. Testing shall be conducted in accordance with Section C- Performance Testing.

**Indiana Department of Environmental Management  
Office of Air Quality**

Technical Support Document (TSD) For a  
Significant Permit Modification to a Part 70 Operating Permit

**Source Description and Location**

Source Name:	Ball State University
Source Location:	2000 University Avenue, Muncie, Indiana 47306
County:	Delaware
SIC Code:	8221
Operation Permit No.:	T035-16280-00002
Operation Permit Issuance Date:	February 2, 2007
Significant Permit Modification No.:	035-24456-00002
Permit Reviewer:	ERG/TDP

**Existing Approvals**

The source was issued Part 70 Operating Permit No. 035-16280-00002 on February 2, 2007.

**County Attainment Status**

The source is located in Delaware County.

<b>Pollutant</b>	<b>Status</b>
PM10	attainment
PM2.5	attainment
SO <sub>2</sub>	attainment
NO <sub>2</sub>	attainment
8-hour Ozone	attainment
CO	attainment
Lead	attainment

- (a) Delaware County has been classified as attainment for PM2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM 2.5 emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as a surrogate for PM2.5 emissions. See the State Rule Applicability – Entire Source section.
- (b) Volatile organic compounds (VOC) and nitrogen oxides (NO<sub>x</sub>) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to ozone. Delaware County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (c) Delaware County has been classified as attainment or unclassifiable in Indiana for CO, NO<sub>2</sub>, SO<sub>2</sub>, and PM10. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (d) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to

326 IAC 1-4-1 redesignating Delaware, Greene, Jackson, Vanderburgh, Vigo and Warrick Counties to attainment for the eight-hour ozone standard.

- (e) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.
- (f) **Fugitive Emissions**  
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are not counted toward determination of PSD or Emission Offset applicability.

**Source Status**

The table below summarizes the potential to emit of the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

<b>Pollutant</b>	<b>Emissions (tons/year)</b>
PM	400
PM10	400
SO <sub>2</sub>	2,544
VOC	6.3
CO	219
NO <sub>x</sub>	312

- (a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because a regulated pollutant is emitted at a rate of 100 tons per year or more, and it is in one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).
- (b) These emissions are based upon the Part 70 Permit T035-16280-00002.

The table below summarizes the potential to emit HAPs for the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

<b>HAPs</b>	<b>Potential To Emit (tons/year)</b>
Hydrogen Chloride	24.2
Hydrogen Fluoride	3.03
Hexane	1.67
Other HAP	4.44
TOTAL	33.3

This existing source is a major source of HAPs, as defined in 40 CFR 63.41, because HAPs emissions are greater than ten (10) tons per year for any single HAP and greater than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is a major source under Section 112 of the Clean Air Act (CAA).

**Actual Emissions**

The following table shows the actual emissions from the source. This information reflects the 2003 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	--
PM10	26.0
PM2.5	12.0
SO <sub>2</sub>	1,254.0
VOC	2.0
CO	95.0
Pb	0.05

**Description of Proposed Modification**

Ball State University was issued a Part 70 Permit (Title V) on February 2, 2007 for a stationary steam generating station. A letter requesting changes to the permit was received on March 15, 2007. The requested changes included updates to the emission unit descriptions of the four coal-fired boilers, the removal of stack testing requirements for the four (4) coal-fired boilers, and a request for a federally enforceable facility-wide permit limit of less than 10 tons per year of any single hazardous air pollutant (HAP) and less than 25 tons per year of combined HAP, such that the requirements of 40 CFR 63, Subpart DDDDD do not apply. The compliance date under the industrial boiler MACT rule in 40 CFR 63.7495, Subpart DDDDD is September 13, 2007. Additionally, the source requested the removal of PM testing for the coal-fired boilers.

**Enforcement Issues**

There are no pending enforcement actions related to this modification.

**Emission Calculations**

See Appendix A of this document for detailed emission calculations.

Potential unlimited HAP emissions from Boilers 4, 5, 6, and 7 are estimated as follows:

HAP	FIRE Emission Factor (lbs/MMBtu)	FIRE Emission Factor (lbs/ton coal burned)	Potential to Emit	
			(lbs/yr)	(tons/yr)
Ammonia		5.65E-04	22.82	0.01
Arsenic	1.03E-03	2.77E-02	1118.83	0.56
Beryllium	1.47E-06	3.94E-05	1.59	7.96E-04
Cadmium	8.20E-05	2.21E-03	89.07	0.04
Chromium	2.33E-05	6.26E-04	25.27	0.01
Cobalt	3.02E-05	8.13E-04	32.85	0.02
Formaldehyde	1.40E-04	3.77E-03	152.07	0.08
Hydrogen chloride		1.20E+00	48456.80	24.23
Hydrogen fluoride		1.50E-01	6057.10	3.03
Lead	5.07E-04	1.36E-02	550.72	0.28
Nickel	3.95E-05	1.06E-03	42.95	0.02
Phosphorus	3.20E-03	8.62E-02	3479.23	1.74
Selenium	1.58E-05	4.26E-04	17.18	0.01
<b>Total PTE HAP</b>				<b>30.02</b>

The limited potential to emit from Boilers 4, 5, 6, and 7 are estimated as follows:

HAP	Emission Factor (lbs/MMBtu)	Emission Factor (lbs/ton coal burned)	Limited Potential to Emit	
			(lbs/yr)	(tons/yr)
Ammonia		5.65E-04	22.82	0.01
Arsenic	1.03E-03	2.77E-02	1118.83	0.56
Beryllium	1.47E-06	3.94E-05	1.59	0.00
Cadmium	8.20E-05	2.21E-03	89.07	0.04
Chromium	2.33E-05	6.26E-04	25.27	0.01
Cobalt	3.02E-05	8.13E-04	32.85	0.02
Formaldehyde	1.40E-04	3.77E-03	152.07	0.08
<b>Hydrogen chloride</b>	<b>1.79E-02</b>	<b>4.81E-01</b>	<b>19421.97</b>	<b>9.71</b>
Hydrogen fluoride		1.50E-01	6057.10	3.03
Lead	5.07E-04	1.36E-02	550.72	0.28
Nickel	3.95E-05	1.06E-03	42.95	0.02
Phosphorus	3.20E-03	8.62E-02	3479.23	1.74
Selenium	1.58E-05	4.26E-04	17.18	0.01
<b>Total PTE HAP</b>			<b>15.51</b>	

The unlimited potential to emit HAPs from Boilers 8, 9, and 10, based on worst case emissions from natural gas and fuel oil combustion are as follows:

HAP	AP-42 Emission Factor (lbs/MMBtu)	PTE (tons/yr)
Arsenic	4.0E-06	3.27E-02
Benzene	2.1E-03	1.96E-03
Beryllium	3.0E-06	2.45E-02
Cadmium	3.0E-06	2.45E-02
Chromium	3.0E-06	2.45E-02
Dichlorobenzene	1.2E-03	1.12E-03
Formaldehyde*	6.02E-02	4.06E-01
Hexane	1.8	1.67
Lead	9.0E-06	7.35E-02
Mercury	3.0E-06	2.45E-02
Manganese	6.0E-06	4.90E-02
Nickel	3.0E-06	2.45E-02
Selenium	1.5E-05	1.23E-01
Toluene	3.4E-03	3.17E-03
<b>Total PTE HAP</b>		<b>2.48</b>

\*Emission factor for formaldehyde is in units of lb/1000 gal fuel oil.

Therefore, sourcewide limited HAP emissions are as follows:

HAP	Boilers 4-7 (tons/yr)	Boilers 8-10 (tons/yr)	Total Limited PTE (tons/yr)
Ammonia	0.01	--	0.01
Arsenic	0.56	3.27E-02	0.59
Benzene	--	1.96E-03	1.96E-03
Beryllium	0.00	2.45E-02	2.45E-02
Cadmium	0.04	2.45E-02	0.06
Chromium	0.01	2.45E-02	0.03
Cobalt	0.02	--	0.02
Dichlorobenzene	--	1.12E-03	1.12E-03
Formaldehyde	0.08	4.06E-01	0.48
Hexane	--	1.67	1.67
Hydrogen Chloride	9.71	--	9.71
Hydrogen Fluoride	3.03	--	3.03
Lead	0.28	7.35E-02	0.35
Mercury	--	2.45E-02	2.45E-02
Manganese	--	4.90E-02	4.90E-02
Nickel	0.02	2.45E-02	0.04
Phosphorus	1.74	--	1.74
Selenium	0.01	1.23E-01	0.13
Toluene	--	3.17E-03	3.17E-03
<b>Total Limited PTE HAP</b>			<b>18.0</b>

**Permit Level Determination – Part 70**

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as the "maximum capacity of a stationary source or emission unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, IDEM, or the appropriate local air pollution control agency."

The permit modification request will not result in change of potential to emit for any regulated pollutant. However, source wide HAP emissions will be limited due to the modification request.

The Part 70 Permit is being modified through a Significant Permit Modification. This modification is being performed pursuant to 326 IAC 2-7-12(b)(1)(D) because it seeks to establish or change a Part 70 Operating Permit Condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject.

**Federal Rule Applicability Determination**

This source is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Industrial, Commercial, and Institutional Boilers and Process Heaters, Subpart DDDDD. The source operates boilers at a source (as defined in 40 CFR 63.7575), which is a major source of HAP as defined in 40 CFR 63.2. This source has requested a federally-enforceable sourcewide HAP limit of less than 10 tons per year of a single HAP and less than 25 tons per year combined HAP. This limit will ensure the source is a minor source of HAPs and is not subject to the requirements of 40 CFR 63, Subpart DDDDD.

Therefore, in order to render the requirements of 326 IAC 20-95-1 and 40 CFR 63, Subpart DDDDD not applicable, hydrogen chloride (HCl) emissions from boilers 4, 5, 6, and 7 shall not exceed 9.9 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

The potential to emit all other HAPs from the Boilers 4, 5, 6, and 7 is 5.7 tons/yr. Therefore, total HAPs from the coal-fired boilers would be limited to 15.5 tpy. The potential to emit HAP from the natural gas-fired boilers 8, 9, and 10 is 2.48 tons per year. Therefore, total source HAP is 18.0 tons per year (see emission calculations above).

Monthly HCl emissions shall be calculated using equation (1):

The Hydrogen Chloride emissions shall be calculated according to the following equation:

$$E_{HCl} = (1.028 * C_{Cl} * Q_{Coal})/10^6 \dots\dots \text{Equation (1)}$$

Where

- $E_{HCl}$  = Emissions of Hydrogen Chloride in tons per month
- 1.028 = Molecular weight ratio of Hydrogen Chloride to Chlorine
- $C_{Cl}$  = Chlorine content in coal (ppm)
- $Q_{Coal}$  = Coal Consumption (dry basis) in tons per month

Compliance with this limit, in conjunction with the sum of the potential to emit of the following HAPs from Boilers 4, 5, 6, 7 and Boilers 8, 9, and 10):

- (i) Ammonia
- (ii) Arsenic
- (iii) Benzene
- (iv) Beryllium
- (v) Cadmium
- (vi) Chromium
- (vii) Cobalt
- (viii) Dichlorobenzene
- (ix) Formaldehyde
- (x) Hexane
- (xi) Hydrogen Fluoride
- (xii) Lead
- (xiii) Mercury
- (xiv) Manganese
- (xv) Nickel
- (xvi) Phosphorus
- (xvii) Selenium
- (xviii) Toluene

will limit the source wide HAPs to less than 25 tons of total HAPs per twelve (12) consecutive month period, with compliance determined at the end of each month. Therefore, the requirements of 326 IAC 20-95-1 (NESHAP) and 40 CFR 63, Subpart DDDDD are not applicable.

This permit requires coal sampling for fluorine and phosphorus to ensure compliance with the total HAP limit.

The HF emissions shall be calculated according to the following equation:

$$E_F = (1.053 * C_F * Q_{Coal})/10^6 \dots\dots \text{Equation (2)}$$

Where

- $E_F$  = Emissions of HF in tons per month
- 1.053 = Molecular weight ratio of Hydrogen Fluoride to Fluorine
- $C_F$  = Fluorine content in coal, dry basis (ppm)

$Q_{\text{Coal}}$  = Coal Consumption in dry tons per month

The Phosphorus emissions shall be calculated according to the following equation:

$$E_P = (C_P * Q_{\text{Coal}}) / 10^6 \dots\dots \text{Equation (3)}$$

Where

$E_P$  = Emissions of Phosphorus in tons per month  
 $C_P$  = Manganese content in coal, dry basis (ppm)  
 $Q_{\text{Coal}}$  = Coal Consumption in dry tons per month

### State Rule Applicability Determination

326 IAC 20-95-1 (Industrial, Commercial, and Institutional Boilers and Process Heaters)

This source is not subject to the requirements of 326 IAC 20-95-1 (Industrial, Commercial, and Institutional Boilers and Process Heaters) because the source has requested a federally enforceable sourcewide HAP limit of less than 10 tons per year of a single HAP and less than 25 tons per year of combined HAPs. This source is not a major source of HAP.

### Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance determination requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. 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:

Coal samples shall be composited and analyzed for the trace HAP substances identified in condition D.1.8 (b) and moisture at least once per month or whenever new coal is bunkered or burned.

### Proposed Changes

The Office of Air Quality (OAQ) has reviewed a permit modification application, submitted by Ball State University on March 15, 2007, requesting the following revisions:

1. The Permittee has requested the revision of the emission unit descriptions for the four (4) coal-fired boilers, identified as Boilers 4, 5, 6, and 7, to remove the steam capacity notation of 25,000 pph.
2. The Permittee has requested a federally enforceable sourcewide limit of less than 10 tons per year of a single HAP and less than 25 tons per year of combined HAP.
3. General information has been updated in Section A.1. to remove the information regarding the Responsible Official from Section A.1 of the permit.

4. General Record Keeping Requirements were updated.
5. The address for IDEM, OAQ has been updated to add mail codes throughout the permit.

The following changes have been made to the Part 70 Permit No.: T035-16280-00002, issued on February 2, 2007. New language is in **bold** and language shown in ~~strikeout~~ has been deleted.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

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The Permittee owns and operates a stationary steam generating station.

Responsible Official:	James Lowe
Source Address:	2000 University Avenue, Muncie, Indiana 47306
Mailing Address:	Ball State University, Muncie, Indiana 47306
General Source Phone Number:	(765) 285-2830
SIC Code:	8221
County Location:	Delaware
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD Rules 1 of 28 Source Categories

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

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

- (a) One (1) coal-fired boiler, installed in 1941, identified as Boiler 4, with a maximum heat input capacity of 31 MMBtu per hour and a steam capacity of 25,000 pounds of steam per hour, and exhausting to stack #2.
- (b) One (1) coal-fired boiler, installed in 1941, identified as Boiler 5, with a maximum heat input capacity of 31 MMBtu per hour and a steam capacity of 25,000 pounds of steam per hour, and exhausting to stack #2.
- (c) One (1) coal-fired boiler, installed in 1955, identified as Boiler 6, with a maximum heat input capacity of 31 MMBtu per hour and a steam capacity of 25,000 pounds of steam per hour, and exhausting to stack #1.
- (d) One (1) coal-fired boiler, installed in 1958, identified as Boiler 7, with a maximum heat input capacity of 31 MMBtu per hour and a steam capacity of 25,000 pounds of steam per hour, and exhausting to stack #1.

...

C.17 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2] [326 IAC 2-3]

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...

- (c) ~~If there is a reasonable possibility that a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-3(ll) at an existing emissions unit, other than projects at a Clean Unit, which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-3(mm), the Permittee shall comply with following:~~ **If there is a "project" (as defined in 326 IAC 2-2-1 (qq) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1 (ee) and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1 (rr) and/or IAC 2-3-1 (mm)), the Permittee shall comply with following:**

...

## SECTION D.1 FACILITY OPERATION CONDITIONS

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

- (a) One (1) coal-fired boiler, installed in 1941, identified as Boiler 4, with a maximum heat input capacity of 31 MMBtu per hour and a steam capacity of 25,000 pounds of steam per hour, and exhausting to stack #2;
- (b) One (1) coal-fired boiler, installed in 1941, identified as Boiler 5, with a maximum heat input capacity of 31 MMBtu per hour and a steam capacity of 25,000 pounds of steam per hour, and exhausting to stack #2;
- (c) One (1) coal-fired boiler, installed in 1955, identified as Boiler 6, with a maximum heat input capacity of 31 MMBtu per hour and a steam capacity of 25,000 pounds of steam per hour, and exhausting to stack #1; and
- (d) One (1) coal-fired boiler, installed in 1958, identified as Boiler 7, with a maximum heat input capacity of 31 MMBtu per hour and a steam capacity of 25,000 pounds of steam per hour, and exhausting to stack #1.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

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

#### D.1.1 NESHAP Minor Limit [40 CFR Part 63, Subpart A] [40 CFR Part 63, Subpart DDDDD] [326 IAC 20-1]

The total amount of coal input to Boilers 4, 5, 6, and 7 shall be limited such that HCl emissions are less than 9.9 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with this limit, in conjunction with the sum of the potential to emit of the following HAPs from Boilers 4, 5, 6, 7 and Boilers 8, 9, and 10 (Section D.2):

- (i) Ammonia
- (ii) Arsenic
- (iii) Benzene
- (iv) Beryllium
- (v) Cadmium
- (vi) Chromium
- (vii) Cobalt
- (viii) Dichlorobenzene
- (ix) Formaldehyde
- (x) Hexane
- (xi) Hydrogen Fluoride
- (xii) Lead
- (xiii) Mercury
- (xiv) Manganese
- (xv) Nickel
- (xvi) Phosphorus
- (xvii) Selenium
- (xviii) Toluene

will limit the source wide HAPs to less than 25 tons of total HAPs per twelve (12) consecutive month period, with compliance determined at the end of each month. Therefore, the requirements of 326 IAC 20-95-1 (NESHAP) and 40 CFR 63, Subpart DDDDD are not applicable.

D.1.12 Particulate Matter (PM)

D.1.23 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1.1-1] [326 IAC 7-2-1]

D.1.34 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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### Compliance Determination Requirements

D.1.45 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 2-7-5(3)(A)] [326 IAC 2-7-6][326 IAC 20]

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### D.1.6 HAP Emissions

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Compliance with the HAP limit in Condition D.1.1 shall be demonstrated using the following equations:

(1) The HCl emissions shall be calculated according to the following equation:

$$E_{\text{HCl}} = (1.028 * C_{\text{Cl}} * Q_{\text{Coal}})/10^6 \text{ ..... Equation (1)}$$

Where

$E_{\text{HCl}}$  = Emissions of Hydrogen Chloride in tons per month  
 $1.028$  = Molecular weight ratio of Hydrogen Chloride to Chlorine  
 $C_{\text{Cl}}$  = Chlorine content in coal, dry basis (ppm)  
 $Q_{\text{Coal}}$  = Coal Consumption in tons per month

(2) The HF emissions shall be calculated according to the following equation:

$$E_{\text{F}} = (1.053 * C_{\text{F}} * Q_{\text{Coal}})/10^6 \text{ ..... Equation (2)}$$

Where

$E_{\text{F}}$  = Emissions of HF in tons per month  
 $1.053$  = Molecular weight ratio of Hydrogen Fluoride to Fluorine  
 $C_{\text{F}}$  = Fluorine content in coal, dry basis (ppm)  
 $Q_{\text{Coal}}$  = Coal Consumption in dry tons per month

(3) The Phosphorus emissions shall be calculated according to the following equation:

$$E_{\text{P}} = (C_{\text{P}} * Q_{\text{Coal}})/10^6 \text{ ..... Equation (3)}$$

Where

$E_{\text{P}}$  = Emissions of Phosphorus in tons per month  
 $C_{\text{P}}$  = Phosphorus content in coal, dry basis (ppm)  
 $Q_{\text{Coal}}$  = Coal Consumption in dry tons per month

D.1.57 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

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Within 180 days after issuance of this permit, to demonstrate compliance with the PM limitation in Condition D.1.1, the Permittee shall conduct a performance stack test on one of the four boilers, identified as Boiler 4, Boiler 5, Boiler 6, or Boiler 7, using methods approved by the Commissioner. This testing shall be repeated once every five years following this valid compliance demonstration using a different boiler for each stack test. Testing shall be conducted in accordance with Section C- Performance Testing.

### D.1.8 Hydrogen Chloride Emissions and Chlorine, Fluorine, and Phosphorus Content

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(a) The coal consumption ( $Q_{\text{Coal}}$ ) in Condition D.1.6 shall be determined each month based on the actual coal burned in the Boilers 4, 5, 6, and 7.

(b) Coal sampling for determining chlorine, fluorine, and phosphorus content shall be performed using one of the procedures required in the Condition D.1.5(a) or by the

**fuel supplier as specified in Condition D.1.8 (e).**

- (c) Coal samples shall be analyzed at least once per month and whenever new coal is bunkered or burned.**
- (d) Samples shall be composited as required in Condition D.1.5. The samples shall be analyzed for total chlorine, fluorine, phosphorus, and moisture using one of the following methods:**
  - (1) ASTM D6721-01 Standard Test Method for Determination of Chlorine in Coal by Oxidative Hydrolysis Microcoulometry.**
  - (2) ASTM D4208-02 Standard Test Method for Total Chlorine in Coal by the Oxygen Bomb Combustion/Ion Selective Electrode Method.**
  - (3) ASTM D2361-02 Standard Test Method for Chlorine in Coal.**
  - (4) ASTM D3173-03 Standard Test Method for Moisture in the Analysis Sample of Coal and Coke.**
  - (5) ASTM D3302-02a Standard Test Method for Total Moisture in Coal.**
- (e) The fuel sampling and analysis requirement in this section may also be conducted by the fuel supplier using one of the following methods:**
  - (1) ASTM D6721-01 Standard Test Method for Determination of Chlorine in Coal by Oxidative Hydrolysis Microcoulometry.**
  - (2) ASTM D4208-02 Standard Test Method for Total Chlorine in Coal by the Oxygen Bomb Combustion/Ion Selective Electrode Method.**
  - (3) ASTM D2361-02 Standard Test Method for Chlorine in Coal.**
  - (4) ASTM D3173-03 Standard Test Method for Moisture in the Analysis Sample of Coal and Coke.**
  - (5) ASTM D3302-02a Standard Test Method for Total Moisture in Coal.**

#### **D.1.9 Hazardous Air Pollutant Emissions**

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- (a) The coal consumption ( $Q_{\text{Coal}}$ ) in Condition D.1.6 shall be determined each month based on the actual coal burned in Boilers 4, 5, 6, and 7.**
- (b) Coal sampling for determining the hazardous air pollutant concentration identified in condition D.1.6 shall be performed at least once per month and whenever new coal (including different type of coal from different supplier) is bunkered or burned, using one of the procedures required in the item (d) or by the fuel supplier as specified in (e).**
- (c) Coal sampling for determining the hazardous air pollutant concentration identified in condition D.1.6 shall be performed quarterly using one of the procedures required in the item (d) or by the fuel supplier as specified in (e).**
- (d) The samples shall be analyzed for the trace HAP substances identified in condition D.1.5 and moisture using one of the following methods:**
  - 1. ASTM D3683-04 Standard Test Method for Trace Elements in Coal and Coke Ash by Atomic Absorption.**

2. **ASTM D3173-03 Standard Test Method for Moisture in the Analysis Sample of Coal and Coke.**
  3. **ASTM D3302-02a Standard Test Method for Total Moisture in Coal.**
- (e) **The fuel sampling and analysis requirement in this section may also be conducted by the fuel supplier using one of the following methods:**
1. **ASTM D3683-04 Standard Test Method for Trace Elements in Coal and Coke Ash by Atomic Absorption.**
  2. **ASTM D3173-03 Standard Test Method for Moisture in the Analysis Sample of Coal and Coke.**
  3. **ASTM D3302-02a Standard Test Method for Total Moisture in Coal.**

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

**D.1.610 Visible Emissions Notations**

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

**D.1.711 Record Keeping Requirements**

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- (a) To document compliance with Condition D.1.23, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the SO<sub>2</sub> emission limits established in Condition D.1.23.  
...
- (b) **To document compliance with Condition D.1.6, D.1.8, and D.1.9, the Permittee shall maintain records in accordance with (1) and (2) below. Records maintained for (1) and (2) shall be sufficient to establish a 12 consecutive month annual emissions rate and shall be complete and sufficient to demonstrate compliance with the HCl limit establish in Condition D.1.1.**
- (1) **Actual coal usage since last compliance determination period and records of fuel sampling results and all calculations per Condition D.1.6.**
  - (2) **Chlorine, fluoride, phosphorus, and moisture content in the coal.**
- ~~(b)~~(c) To document compliance with Condition D.1.59, the Permittee shall maintain records of visible emission notations of each boiler stack (1 and 2) exhaust while combusting coal.
- ~~(e)~~(d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

**D.1.812 Reporting Requirements**

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- (a) A quarterly summary of the information to document compliance with Condition D.1.23 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, 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. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) **A quarterly summary of the information to document compliance with Condition D.1.6 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, 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. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).**

The following Reporting Form has been added for HAPs reporting.

## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

### Part 70 Quarterly Report

**Source Name:** Ball State University  
**Source Address:** 2000 University Avenue, Muncie, Indiana 47306  
**Mailing Address:** 3401 N. Tilotson Avenue, Muncie, Indiana 47306  
**Part 70 Permit No.:** T035-16280-00002  
**Facility:** Boilers 4, 5, 6, and 7  
**Parameter:** Single HAP and Total HAPs  
**Limit:** Each individual hazardous air pollutant and total hazardous air pollutants are limited to less than 9.9 and 24.9 tons per twelve (12) consecutive month period respectively, with compliance determined at the end of each month.

YEAR:

Month	Column 1	Column 2	Column 3
	Coal Consumption (tons)	HAP Content (%)	Moisture Content (%)
Month 1			
Month 2			
Month 3			

<b>Conclusion and Recommendation</b>
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This proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Permit Modification No. 035-24456-00002. The staff recommend to the Commissioner that this Part 70 Significant Permit Modification be approved.

**Appendix A: Emission Calculations**  
**HAP Calculations for Boilers #4, 5, 6, and 7**

**Company Name: Ball State University**  
**Address : 2000 Univeristy Avenue, Muncie, IN 47306**  
**Significant Permit Modification: 035-24456-00002**  
**Plt ID: 035-00002**  
**Reviewer: ERG/TP**  
**Date: April 10, 2007**

Potential Throughput - Boilers #4, 5, 6, and 7  
(tons/yr)

40381

**Unlimited HAP Emissions**

HAP	Emission Factor 1 (lbs/MMBtu)	Emission Factor 2 (lbs/ton coal burned)	Emissions (lbs/yr) (tons/yr)	
Ammonia		5.65E-04	22.82	0.01
Arsenic	1.03E-03	2.77E-02	1118.83	0.56
Beryllium	1.47E-06	3.94E-05	1.59	7.96E-04
Cadmium	8.20E-05	2.21E-03	89.07	0.04
Chromium	2.33E-05	6.26E-04	25.27	0.01
Cobalt	3.02E-05	8.13E-04	32.85	0.02
Formaldehyde	1.40E-04	3.77E-03	152.07	0.08
Hydrogen chloride		1.20E+00	48456.80	24.23
Hydrogen fluoride		1.50E-01	6057.10	3.03
Lead	5.07E-04	1.36E-02	550.72	0.28
Nickel	3.95E-05	1.06E-03	42.95	0.02
Phosphorus	3.20E-03	8.62E-02	3479.23	1.74
Selenium	1.58E-05	4.26E-04	17.18	0.01
<b>Total PTE HAP</b>			<b>30.02</b>	

**Limited HAP Emissions**

HAP	Emission Factor 1 (lbs/MMBtu)	Emission Factor 2 (lbs/ton coal burned)	Emissions (lbs/yr) (tons/yr)	
Ammonia		5.65E-04	22.82	0.01
Arsenic	1.03E-03	2.77E-02	1118.83	0.56
Beryllium	1.47E-06	3.94E-05	1.59	0.00
Cadmium	8.20E-05	2.21E-03	89.07	0.04
Chromium	2.33E-05	6.26E-04	25.27	0.01
Cobalt	3.02E-05	8.13E-04	32.85	0.02
Formaldehyde	1.40E-04	3.77E-03	152.07	0.08
<b>Hydrogen chloride</b>	<b>1.79E-02</b>	<b>4.81E-01</b>	<b>19421.97</b>	<b>9.71</b>
Hydrogen fluoride		1.50E-01	6057.10	3.03
Lead	5.07E-04	1.36E-02	550.72	0.28
Nickel	3.95E-05	1.06E-03	42.95	0.02
Phosphorus	3.20E-03	8.62E-02	3479.23	1.74
Selenium	1.58E-05	4.26E-04	17.18	0.01
<b>Total PTE HAP</b>			<b>15.51</b>	

Emission factors for ammonia, arsenic, cadmium, formaldehyde, hydrogen chloride, hydrogen fluoride, and lead are from FIRE 6.25, for industrial overfeed stoker SCC 1-02-002-05

Emission factors for beryllium, chromium, cobalt, nickel, phosphorus, and selenium are from FIRE 6.23, for industrial overfeed stoker SCC 1-02-002-05

Emission factor for limited hydrogen chloride is based HCl limitations established under this permit modification. Stack testing performed on June 5, 2002 by Almega Environmental, Inc. using EPA Method 26A revealed a chlorine content of 0.169 lb Cl/ton and a dry basis heat content of 26.972 MMBtu/ton, which results in 0.0062 lb Cl/MMBtu.

**Methodology:**

Potential Throughput (tons/yr) = (31 MMBtu/hr \* 4 boilers \* 8,760 hr/yr) / (26.9 MMBtu/ton dry basis)

The FIRE 6.23 and FIRE 6.25 emission factors (Emission Factor 1) for heat input (lb/MMBtu) were converted to lbs/ton coal burned for individual HAPs (Emission Factor 2).

Emission Factor 2 = Emission Factor 1 \* 23 MMBtu/ton

Emissions (tons/yr) = Potential Throughput for 4 boilers (tons/yr) \* Emission Factor 2 (lbs/ton) / 2000 lbs

**Appendix A: Emission Calculations**  
**HAP Calculations for Boilers 8, 9, 10**  
**MMBTU/HR<100**  
**Small Industrial Boilers**

**Company Name: Ball State University**  
**Address : 2000 Univeristy Avenue, Muncie, IN 47306**  
**Significant Permit Modification: 035-24456-00002**  
**Pit ID: 035-00002**  
**Reviewer: ERG/TP**  
**Date: April 10, 2007**

**Natural Gas Combustion Only**

Heat Input Capacity  
MMBtu/hr

213.0

Potential Throughput  
MMCF/yr

1865.9

**HAPs - Organics**

Emission Factor in lb/MMCF	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	<b>1.959E-03</b>	<b>1.120E-03</b>	6.997E-02	<b>1.679E+00</b>	<b>3.172E-03</b>

**HAPs - Metals**

Emission Factor in lb/MMCF	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	4.665E-04	1.026E-03	1.306E-03	3.545E-04	1.959E-03

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 #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (AP-42 Supplement D 3/98)  
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

**No. 2 Fuel Oil Combustion Only****HAPs - Metals**

Emission Factor in lb/MMBtu	Arsenic 4.0E-06	Beryllium 3.0E-06	Cadmium 3.0E-06	Chromium 3.0E-06	Lead 9.0E-06
Potential Emission in tons/yr	<b>3.269E-02</b>	<b>2.452E-02</b>	<b>2.452E-02</b>	<b>2.452E-02</b>	<b>7.355E-02</b>

**HAPs (continued)**

Emission Factor in lb/MMBtu	Mercury 3.0E-06	Manganese 6.0E-06	Nickel 3.0E-06	Selenium 1.5E-05	Formaldehyde 6.0E-02 (lb/1000gal)
Potential Emission in tons/yr	<b>2.452E-02</b>	<b>4.904E-02</b>	<b>2.452E-02</b>	<b>1.226E-01</b>	<b>4.06E-01</b>

Highlighted values are worst-case HAP emissions for these boilers.

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

Emission Factors are from AP-42, Tables 1.3-1, 1.3-2, and 1.3-3 ( SCC 1-03-005-01/02/03) Supplement E 9/98

Potential Emissions (tons/year) = Heat Input Capacity (MMBtu/hr)\*Emission Factor (lb/MMBtu)\*8,760hrs/yr / 2,000lb/ton