



*Mitchell E. Daniels, Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
(800) 451-6027  
www.IN.gov/idem

TO: Interested Parties / Applicant  
DATE: January 15, 2007  
RE: Indiana University / 105-24777-00005  
FROM: Matthew Stuckey, Deputy Branch 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, Suite N 501E, 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.*

Mitchell E. Daniels, Jr.  
Governor

Thomas W. Easterly  
Commissioner

100 North Senate Avenue  
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Indianapolis, Indiana 46204-2251  
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www.IN.gov/idem

Mr. Mike Jensen  
Indiana University  
820 North Walnut Grove  
Bloomington, Indiana 47405-2206

January 15, 2008

Re: 105-24777-00005  
First Significant Permit Modification to  
Part 70 No.: T105-6642-00005

Dear Mr. Jensen:

Indiana University, located at 820 North Walnut Grove, Bloomington, Indiana 47405, was issued a Part 70 operating permit (105-6642-00005) on June 29, 2004. A letter requesting changes to this permit was received on April 16, 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 following emission units are approved for construction at the source:

One (1) natural gas or low-sulfur No. 2 fuel oil fired boiler, identified as EU-07, approved for construction in 2007, with a maximum design capacity of 217 MMBtu per hour when combusting natural gas and 208 MMBtu per hour when combusting fuel oil, and equipped with low NOx burners and induced flue gas recirculation for NOx control, exhausting to stack 002.

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 Mike Pring, ERG, 1600 Perimeter Park Drive, Morrisville, North Carolina 27560, or call (919) 468-7840 to speak directly to Mr. Pring. 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.

Original signed by,

Matthew Stuckey, Deputy Branch Chief  
Permits Branch  
Office of Air Quality

Attachments

ERG/MP

cc: File - Monroe County  
U.S. EPA, Region V  
Monroe County Health Department  
Air Compliance Section Inspector – Jim Thorpe  
Compliance Data Section  
Administrative and Development  
Technical Support and Modeling - Michele Boner  
Billing, Licensing, and Training Section - Dan Stamatkin



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## PART 70 OPERATING PERMIT OFFICE OF AIR QUALITY

**Indiana University  
820 North Walnut Grove  
Bloomington, Indiana 47405-2206**

(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.: T105-6642-00005	
Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: June 29, 2004
First Significant Permit Modification No.: 105-24777-00005	Affected Pages: whole permit
Original signed by: Matthew Stuckey, Deputy Branch Chief Permits Branch Office of Air Quality	Issuance Date: January 15, 2008  Expiration Date: June 29, 2009

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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 source power plant that supplies campus with process heat from boilers.

Source Address:	820 North Walnut Grove, Bloomington, Indiana 47405-2206
Mailing Address:	1514 East 3 <sup>rd</sup> Street, Bloomington, Indiana 47405-2206
General Source Phone Number:	(812)855-3231
SIC Code:	8221
County Location:	Monroe
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD Rules 1 of 28 listed source categories Major Source, Section 112 of the Clean Air Act

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

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

- (a) One (1) natural gas or low-sulfur No. 2 fuel oil fired boiler, identified as EU-07, approved for construction in 2007, with a maximum design capacity of 217 MMBtu per hour when combusting natural gas and 208 MMBtu per hour when combusting fuel oil, and equipped with low NOx burners and induced flue gas recirculation for NOx control, with continuous monitors for monitoring carbon monoxide and NOx, exhausting to stack 002. Under 40 CFR Subpart Db, this is a new affected source.
- (b) Two (2) coal, natural gas, No.1 or No.2 fuel oil fired boilers, identified as EU-03 and EU-04, both constructed in 1959, with a maximum design capacity of 125 MMBtu per hour heat input each (operating at a maximum capacity of 100 MMBtu per hour heat input each when combusting coal or a combination of fuels), and with a maximum design capacity of 80 MMBtu per hour heat input each when combusting natural gas and/or fuel oil, each equipped with low NOx burners for natural gas and/or fuel oil, and each with a multiclone for particulate control when combusting coal and/or fuel oil, both exhausting at stack 002.
- (c) One (1) natural gas, No.1 or No.2 fuel oil fired boiler, identified as EU-05, constructed in 1964 and modified in 1989, with a maximum design capacity of 190 MMBtu per hour heat input, equipped with low NOx burners (two natural gas fired burners at 75 MMBtu per hour heat input each) for natural gas and/or fuel oil, and a multiclone for particulate control when combusting fuel oil, exhausting to stack 002 or 003.
- (d) One (1) coal, natural gas, No.1 or No.2 fuel oil fired boiler, identified as EU-06, constructed in 1970, with a maximum design capacity of 190 MMBtu per hour heat input when combusting coal and/or fuel oil, and 150 MMBtu per hour heat input (two natural gas fired burners rated at 75 MMBtu per hour heat input each) when combusting natural gas, equipped with low NOx burners for natural gas and/or fuel oil, a multiclone and an electrostatic precipitator for particulate control when combusting coal and/or fuel oil, and a continuous opacity monitor for monitoring opacity, exhausting to stack 003

- (e) One (1) coal storage and handling system, with a maximum design throughput of 200 tons of coal per hour and 210,000 tons of coal per year, consisting of the following:
  - (1) One (1) coal truck receiving system, consisting of an interior wet suppression system to control coal dust emissions during coal receiving, and two (2) truck hoppers.
  - (2) Four (4) enclosed belt conveyors, and one (1) enclosed bucket conveyor, with particulate emissions controlled by a fabric filter system, with four (4) dust collectors, identified as DC1 through 4, located internally at various points along the enclosed conveyor system, with all dust collectors exhausting internally.
  - (3) One (1) coal storage silo with a storage capacity of 1,000 tons of coal, with particulate emissions controlled by one (1) dust collector, identified as DC6, exhausting externally at vent 6.

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) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour heat input [326 IAC 6-2]:
  - (1) Twenty-two (22) boilers constructed before 1972, with a combined total heat input of 29.130 MMBtu per hour. [326 IAC 6-2-3(b) and (d)]
  - (2) One (1) boiler constructed in 1977, with a heat input of 0.60 MMBtu per hour. [326 IAC 6-2-3(c)]
  - (3) One (1) boiler constructed in 1981, with a heat input of 0.110 MMBtu per hour. [326 IAC 6-2-3(c)]
  - (4) Fifty-seven (57) boilers constructed after 1983, with a combined heat input of 135.39 MMBtu per hour. [326 IAC 6-2-4(a) and (b)]
- (b) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3]
- (c) Oil fired emergency generators not exceeding 1,600 horsepower:
  - (1) One (1) emergency generator at MSB 1 rated at 1200 horsepower.

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)]

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- (a) This permit, T105-6642-00005, 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)]

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- (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)]

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- (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 the "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)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent 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) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:
- (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.

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

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

The PMP extension notification does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (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]

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- (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]

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

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- (a) All terms and conditions of permits established prior to T105-6642-00005 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) Provided that all terms and conditions are accurately reflected in this combined permit, all previous registrations and permits are superseded by this combined new source review and part 70 operating permit.

**B.14 Termination of Right to Operate [326 IAC 2-7-10][326 IAC 2-7-4(a)]**

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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)]**

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- (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 61-52 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 Operating 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)]

- (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)]

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- (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]

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- (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 the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, 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]

- (a) A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.
- (b) Any modification at an existing major source is governed by the requirements of 326 IAC 2-2.

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]

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]

- (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]

- (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 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).

## 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 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.

**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.

**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) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. 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]**

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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)]**

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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 Maintenance of Continuous Opacity Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

- (a) The Permittee shall install, calibrate, maintain, and operate all necessary continuous opacity monitoring systems (COMS) and related equipment. For a boiler, the COMS shall be in operation at all times that the induced draft fan is in operation.
- (b) All COMS shall meet the performance specifications of 40 CFR 60, Appendix B, Performance Specification No. 1, and are subject to monitor system certification requirements pursuant to 326 IAC 3-5.
- (c) In the event that a breakdown of a COMS occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.
- (d) Whenever a COMS is malfunctioning or is down for maintenance or repairs for a period of twenty-four (24) hours or more and a backup COMS is not online within twenty-four (24) hours of shutdown or malfunction of the primary COMS, the Permittee shall provide a certified opacity reader, who may be an employee of the Permittee or an independent contractor, to self-monitor the emissions from the emission unit stack.
  - (1) Visible emission readings shall be performed in accordance with 40 CFR 60, Appendix A, Method 9, for a minimum of five (5) consecutive six (6) minute averaging periods beginning not more than twenty-four (24) hours after the start of the malfunction or down time.
  - (2) Method 9 opacity readings shall be repeated for a minimum of five (5) consecutive six (6) minute averaging periods at least twice per day during daylight operations, with at least four (4) hours between each set of readings, until a COMS is online.
  - (3) Method 9 readings may be discontinued once a COMS is online.
  - (4) Any opacity exceedances determined by Method 9 readings shall be reported with the Quarterly Opacity Exceedances Reports.
- (e) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous opacity monitoring system pursuant to 326 IAC 3-5, (and 40 CFR 60 and/or 40 CFR 63).

C.12 Maintenance of Continuous Emission Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

- (a) The Permittee shall install, calibrate, maintain, and operate all necessary continuous emission monitoring systems (CEMS) and related equipment.
- (b) In the event that a breakdown of a continuous emission monitoring system occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.
- (c) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to 40 CFR 60 and/or 63.

C.13 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.

C.14 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.

- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

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

**C.15 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 has prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) 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.16 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.17 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; and/or
    - (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.18 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 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.19 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.20 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 326 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.21 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2]

- (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 61-52 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) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. 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 (ll) 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.22 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) natural gas or low-sulfur No. 2 fuel oil fired boiler, identified as EU-07, approved for construction in 2007, with a maximum design capacity of 217 MMBtu per hour when combusting natural gas and 208 MMBtu per hour when combusting fuel oil, and equipped with low NOx burners and induced flue gas recirculation for NOx control, with continuous monitors for monitoring carbon monoxide and NOx, exhausting to stack 002. Under 40 CFR 60, Subpart Db, this is a new affected source.

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

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

#### D.1.1 Particulate Matter Limitation (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate emission limitations for sources of indirect heating: emission limitations for facilities specified in 326 IAC 6-2-1(d)), the PM emissions from boiler EU-07 shall in no case exceed 0.189 pounds of particulate matter per million British thermal units heat input. This limitation is based on the following equation:

$$P_t = \frac{1.09}{Q^{0.26}}$$

where:  $P_t$  - PM limit in pounds per MMBtu  
 $Q$  - total source permitted capacity in MMBtu/hr  
( $Q=847$  MMBtu/hr for this source)

#### D.1.2 PSD Minor Limit [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, Boiler EU-07 shall be limited as follows:

- (a) No. 2 Fuel Oil Usage Limit  
The input of No. 2 fuel to the new boiler shall be limited to less than 329,000 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) SO<sub>2</sub>  
The sulfur content in the No. 2 fuel oil used in Boiler EU-07 shall not exceed 0.1 percent.
- (c) The emissions of PM<sub>10</sub> while burning No. 2 fuel oil shall not exceed 3.3 pounds per 1,000 gallons of No. 2 fuel oil burned.
- (d) NO<sub>x</sub>  
The emissions of NO<sub>x</sub> while burning natural gas shall not exceed 36.72 lb/MMcf. The emissions of NO<sub>x</sub> while burning No. 2 fuel oil shall not exceed 12.51 lb/Kgal.

Compliance with these limits combined with the potential emissions of emergency generator MSB 1 will limit SO<sub>2</sub> emissions to less than 40 tons per year, PM<sub>10</sub> emissions to less than 15 tons per year, and NO<sub>x</sub> emissions to less than 40 tons per year from the modification permitted under SSM 105-24626-00005 and will render the requirements of 326 IAC 2-2 (PSD) not applicable for SO<sub>2</sub>, PM<sub>10</sub>, and NO<sub>x</sub>.

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

Pursuant to 326 IAC 7-1.1-2, sulfur dioxide emissions shall not exceed 0.5 pounds per million British thermal units (lb/MMBtu) of heat input from boiler EU-07 when combusting No.2 fuel oil.

#### D.1.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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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

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Compliance with Condition D.1.2(c) and D.1.3 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 (0.5) pounds per million Btu heat input for distillate oil combustion or does not exceed a sulfur content of 0.1 percent by:
  - (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor 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.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from boiler EU-07, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any 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.1.6 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

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- (a) Visible emission (VE) notations of stack exhaust 002 shall be performed once per day during normal daylight operations while boiler EU-07 combusts fuel oil. A trained employee shall record whether emissions are normal or abnormal.
- (b) If abnormal emissions are observed at exhaust 002 while boiler EU-07 combusts fuel oil, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Observation of abnormal emissions that do not violate an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (c) "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.
- (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 the boilers.

#### D.1.7 Continuous Emissions Monitoring [326 IAC 3-5] [326 IAC 2-2] [326 IAC 12]

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- (a) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), the Permittee is required to calibrate, certify, operate and maintain a continuous emission monitoring system (CEMS) for measuring NOx emissions rates from the boiler stack (stack 002) in accordance with 326 IAC 3-5 to demonstrate compliance with Condition D.1.2(e).

- (b) All continuous emission monitoring systems are subject to monitor system certification requirements pursuant to 326 IAC 3-5-3.
- (c) Pursuant to 326 IAC 3-5-4(a), if revisions are made to the continuous monitoring standard operating procedures (SOP), the Permittee shall submit updates to the department biennially.

Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to 326 IAC 3-5, 326 IAC 10-4, 40 CFR 60, or 40 CFR 75.

### **Recordkeeping and Reporting Requirements [326 IAC 2-7-5(3) [326 IAC 2-7-19]**

#### **D.1.8 Record Keeping Requirements**

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- (a) To document compliance with Condition D.1.2, the Permittee shall maintain records of monthly fuel usage for natural gas and No. 2 fuel oil combusted in the boiler.
- (b) To document compliance with Conditions D.1.2, D.1.3, and D.1.5, the Permittee shall maintain records in accordance with (1) through (7) below.
  - (1) Calendar dates covered in the compliance determination period;
  - (2) No. 2 fuel oil usage and natural gas usage since last compliance determination period and NOx and SO2 emissions.
  - (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period, the natural gas fired boiler certification does require the certification by the "Responsible Official" as defined by 326 IAC 2-7-1(34); and
  - (4) All fuel sampling and analysis data, pursuant to 326 IAC 7-2, and data collected in accordance with Condition D.1.5.

If the fuel supplier certification is used to demonstrate compliance the following, as a minimum, shall be maintained:

- (5) Fuel supplier certifications.
- (6) The name of the fuel supplier; and
- (7) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

- (c) To document compliance with Condition D.1.2(e), the Permittee shall maintain records of the emission rates of NOx in pounds per MMCF and pounds per Kgal based on CEMS data.
- (d) To document compliance with Condition D.1.6, the Permittee shall maintain records of daily visible emission notations of the stack 002 exhaust, during times when fuels other than natural gas are combusted. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation (e.g., the process did not operate that day).

- (e) To document compliance with Condition D.1.7, the Permittee shall maintain records, including raw data of all monitoring data and supporting information, for a minimum of five (5) years from the date described in 326 IAC 3-5-7(a). The records shall include the information described in 326 IAC 3-5-7(b).
- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.1.9 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.1.2(a) and D.1.2(b) shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. 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)]:

- (b) Two (2) coal, natural gas, No.1 or No.2 fuel oil fired boilers, identified as EU-03 and EU-04, both constructed in 1959, with a maximum design capacity of 125 MMBtu per hour heat input each (operating at a maximum capacity of 100 MMBtu per hour heat input each when combusting coal or a combination of fuels), and with a maximum design capacity of 80 MMBtu per hour heat input each when combusting natural gas and/or fuel oil, each equipped with low NOx burners for natural gas and/or fuel oil, and each with a multicclone for particulate control when combusting coal and/or fuel oil, both exhausting at stack 002.
- (c) One (1) natural gas, No.1 or No.2 fuel oil fired boiler, identified as EU-05, constructed in 1964 and modified in 1989, with a maximum design capacity of 190 MMBtu per hour heat input, equipped with low NOx burners (two natural gas fired burners at 75 MMBtu per hour heat input each) for natural gas and/or fuel oil, and a multicclone for particulate control when combusting fuel oil, exhausting to stack 002 or 003.

(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 Limitation (PM) [326 IAC 6-2-3]

Pursuant to OP 53-02-92-0081 and 0082, issued January 12, 1990, and 326 IAC 6-2-3(b)(Particulate emission limitations for sources of indirect heating: emission limitations for facilities specified in 326 IAC 6-2-1(c)), the PM emissions from EU-03, EU-04, and EU-05, shall not exceed 0.38 pounds of particulate matter per million British thermal units heat input each. This limitation is based on the following equation:

$$P_t = \frac{(C * a * h)}{(76.5 * Q^{0.75} * N^{0.25})}$$

where:  $P_t$  - PM limit in pounds per MMBtu  
C - Maximum ground level concentration  
a - Plume rise factor  
h - Stack height in feet  
Q - total source permitted capacity in MMBtu/hr = 740 MMBtu/hr  
N - Number of stacks

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

- (a) Pursuant to 326 IAC 7-1.1-2, sulfur dioxide emissions from each boiler, EU-03 and EU-04, shall not exceed 6.0 pounds per million British thermal units (lb/MMBtu) of heat input when combusting coal, and when combusting coal and oil simultaneously, and 0.5 pounds per million British thermal units (lb/MMBtu) of heat input when combusting No.1 or No.2 fuel oil.
- (b) Pursuant to 326 IAC 7-1.1-2, sulfur dioxide emissions shall not exceed 0.5 pounds per million British thermal units (lb/MMBtu) of heat input from boiler EU-05 when combusting No.1 or No.2 fuel oil.
- (c) Pursuant to PC (55) 1731 and OP 53-02-92-0083, issued February 15, 1989 and January 5, 1990, for EU-05, the No.2 fuel oil shall have a maximum sulfur content of five tenths percent (0.5%).

#### D.2.3 Nitrogen Oxide Emission Limitation

Pursuant to PC (55) 1731 and OP 53-02-92-0083, issued February 15, 1989 and January 5, 1990, the nitrogen oxide emissions from boiler EU-05 shall in no case exceed 0.1 pounds per million British thermal units (lb/MMBtu) of heat input when combusting natural gas, No.1 or No.2 fuel oil.

#### D.2.4 Heat Input Capacity Limitation

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Pursuant to OP 53-02-92-0081 and 0082, issued January 12, 1990, condition 4, boilers EU-03 and EU-04 shall not operate above 80% of the maximum rated capacity (100 million Btu per hour of heat input).

#### D.2.5 Heat Input Capacity Limitations

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(a) Pursuant to 1265 Exemption Qualification 105-8180, issued February 24, 1997, the total heat input to boilers No.3 and No.4 when burning coal, natural gas, No.2 fuel oil, or any combination of these three fuels shall not exceed 100 million British thermal units per hour for each boiler.

(b) The total heat input to boilers EU-03 and EU-04 with the use of No.1 fuel oil, by itself or in combination, with any of the fuels listed above shall not exceed 100 million British thermal units per hour for each boiler.

#### D.2.6 Fuel Usage Equivalency Limits

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(a) The total input of natural gas to boiler EU-05 shall be less than 870 MMCF per twelve consecutive month period, rolled on a monthly basis. For purposes of determining compliance, every 3.84 kilo-gallons of No.1 or No.2 fuel oil combusted shall be equivalent to 1 MMCF of natural gas based on NO<sub>x</sub> emissions and 0.08% sulfur content of No.1 fuel oil and 0.49% sulfur content of No.2 fuel oil. The amount of natural gas and natural gas equivalents used shall be determined as follows:

Amount of natural gas and natural gas equivalents used = ((EU-05 No.1 fuel oil usage in kgal/yr)/(3.84 kgal/MMCF)) + ((EU-05 No.2 fuel oil usage in kgal/yr)/(3.84 kgal/MMCF)) + (EU-05 natural gas usage in MMCF/yr)

(b) The total input of No. 2 fuel oil to boiler EU-05 shall be less than 1,120 kgals per twelve consecutive month period, rolled on a monthly basis. For purposes of determining compliance, every kilo-gallon of No.1 fuel oil combusted shall be equivalent to 5.89 kgal of No. 2 fuel oil based on SO<sub>2</sub> emissions and 0.08% sulfur content of No. 1 fuel oil and 0.49% sulfur content of No. 2 fuel oil, and every MMCF of natural gas burned shall be equivalent to 0.009 kgal of No. 2 fuel oil based on SO<sub>2</sub> emissions and 0.49% sulfur content of No. 2 fuel oil. The amount of No. 2 fuel oil and No. 2 fuel oil equivalents used shall be determined as follows:

Amount of No. 2 fuel oil and No. 2 fuel oil equivalents used = (EU-05 No.1 fuel oil usage in kgal/yr \* 5.89 kgal of No. 2 fuel oil/kgal of No. 1 fuel oil) + (EU-05 No.2 fuel oil usage in kgal/yr) + (EU-05 natural gas usage in MMCF/yr \* 0.009 kgal No. 2 fuel oil/MMCF natural gas)

Compliance with the above limits NO<sub>x</sub> and SO<sub>2</sub> to less than 40 tons per twelve consecutive month period with compliance determined at the end of each month and renders 326 IAC 2-2 not applicable.

#### D.2.7 Operation Standards [40 CFR 279] [329 IAC 13]

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All coal burned in boilers EU-03 and EU-04, including coal treated with any additive, shall meet ASTM specifications for classification as coal (ASTM D388).

#### D.2.8 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

## Compliance Determination Requirements

### D.2.9 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

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- (a) Pursuant to the Amendment to OP 53-02-92-0079 through 0084, issued October 19, 1990, the Permittee shall stack test for particulate matter emissions to determine compliance with 326 IAC 6-2 for boilers EU-03 and EU-04.
- (1) Boiler EU-03 shall be tested for particulate matter emissions every three years starting from the most recent compliant stack test; and
- (2) Boiler EU-04 shall be tested for particulate matter emissions every three years starting from the most recent compliant stack test.

These tests shall be performed no later than thirty-six (36) months after the most recent compliant stack test.

- (b) Pursuant to the Amendment to OP 53-02-92-0079 through 0084, issued October 19, 1990, the Permittee shall stack test boiler EU-05 for nitrogen oxide emissions every three years starting from the most recent compliant stack test. During testing, the Permittee shall combust only No.1 fuel oil.
- (c) Compliance with Conditions D.2.1 and D.2.3 will be determined based on the testing schedule in parts (a) and (b) of this condition, utilizing the appropriate methods, or other methods as approved by the Commissioner. Testing shall be conducted in accordance with Section C- Performance Testing.

### D.2.10 Particulate Control [326 IAC 2-7-6(6)]

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Except as otherwise provided by statute or rule, or in this permit;

- (a) The multiclones for particulate control shall be in operation at all times when boilers EU-03, EU-04, and EU-05 are in operation and EU-05 is combusting oil, and EU-03 and EU-04 are combusting oil and/or coal.
- (b) Pursuant to the Amendment to Operating Permits 53-02-92-0079 through 0084, issued October 19, 1990, operation condition 12, one scheduled employee on each daytime shift shall be certified to read visible emissions.

### D.2.11 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 3-7] [326 IAC 7-2] [326 IAC 7-1.1-2]

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- (a) Pursuant to OP 53-02-92-0079 and 0080, issued January 12, 1990, and pursuant to 326 IAC 7-2-1(c), the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed six (6.0) pounds per MMBtu using a calendar month average when EU-03 and EU-04 are combusting coal, or coal in combination with another fuel.
- (b) Pursuant to 326 IAC 7-2-1(e) and 326 IAC 3-7, coal sampling and analysis data shall be collected as follows:
- (1) Coal sampling shall be performed using the methods specified in 326 IAC 3-7-2(a), and sample preparation and analysis shall be performed as specified in 326 IAC 3-7-2(c), (d), and (e); or
- (2) Pursuant to 326 IAC 3-7-2(b)(2) and 326 IAC 3-7-3, manual or other non-ASTM automatic sampling and analysis procedures may be used upon a demonstration, submitted to the department for approval, that such procedures provide sulfur dioxide emission estimates representative either of estimates based on coal sampling and analysis procedures specified in 326 IAC 3-7-2 or of continuous emissions monitoring; or

- (3) The Permittee shall meet the minimum sampling requirements specified in 326 IAC 3-7-2(b)(3), and sample preparation and analysis shall be performed as specified in 326 IAC 3-7-2(c), (d), and (e).
- (c) Upon written notification to IDEM by a facility owner or operator, continuous emission monitoring data collected and reported pursuant to 326 IAC 3-5 may be used as the means for determining compliance with the emission limitations in 326 IAC 7. Upon such notification, the other requirements of 326 IAC 7-2 shall not apply. [326 IAC 7-2-1(g)]

**D.2.12 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 3-7] [326 IAC 7-2] [326 IAC 7-1.1-2]**

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When EU-03, EU-04, and EU-05 are combusting fuel oil, or fuel oil in combination with natural gas, compliance shall be determined utilizing one of the following options.

- (a) Pursuant to 326 IAC 3-7-4, 326 IAC 7-2, and 326 IAC 7-1.1-2, the Permittee shall demonstrate that the sulfur dioxide do not exceed the equivalent of 0.5 pounds per MMBtu, using a calendar month average.
- (b) Pursuant to 326 IAC 7-2-1(e) and 326 IAC 3-7-4, fuel sampling and analysis data shall be collected as follows:
  - (1) The Permittee may rely upon vendor analysis of fuel delivered, if accompanied by a vendor certification [326 IAC 3-7-4(b)]; or,
  - (2) The Permittee shall perform sampling and analysis of fuel oil samples in accordance with 326 IAC 3-7-4(a).
    - (A) Oil samples shall be collected from the tanker truck load prior to transferring fuel to the storage tank; or
    - (B) Oil samples shall be collected from the storage tank immediately after each addition of fuel to the tank.
- (c) Upon written notification to IDEM by a facility owner or operator, continuous emission monitoring data collected and reported pursuant to 326 IAC 3-5 may be used as the means for determining compliance with the emission limitations in 326 IAC 7. Upon such notification, the other requirements of 326 IAC 7-2 shall not apply. [326 IAC 7-2-1(g)]

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

**D.2.13 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

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- (a) Visible emission (VE) notations of stack exhaust 002 shall be performed once per day during normal daylight operations while boilers EU-03 and EU-04 combust coal and/or fuel oil, or while EU-05 combusts fuel oil. After EU-05 begins exhausting to stack 003, VE notations for EU-05 shall be performed on exhaust 003 while EU-05 combusts fuel oil. A trained employee shall record whether emissions are normal or abnormal.
- (b) If abnormal emissions are observed at exhaust 002 while boilers EU-03 and EU-04 combust coal and/or fuel oil, or while EU-05 combusts fuel oil, or if abnormal emissions are observed at exhaust 003 while EU-05 combusts fuel oil after EU-05 begins exhausting to exhaust 003, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Observation of abnormal emissions that do not violate an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (c) ΔNormal@ 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.

- (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 the boilers.

**D.2.14 Monitoring: Multiclones [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

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- (a) The ability of the multiclones to control particulate emissions shall be monitored at least once per day, when their associated units are in operation, by measuring and recording the pressure drop across the collectors.
- (b) Reasonable response steps shall be taken in accordance with Section C - Response to Excursions or Exceedances whenever the pressure drop is outside of the normal operating range for the corresponding boiler steam load. A pressure drop reading that is outside normal range is not a deviation from this permit. Failure to take response steps in accordance with Response to Excursions or Exceedances, shall be considered a deviation from this permit.

**D.2.15 Multiclone Failure Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]**

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In the event that multiclone failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions). 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 Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

**D.2.16 Record Keeping Requirements**

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- (a) Pursuant to OP 53-02-92-0081 and 0082, issued January 12, 1990, and 1265 Exemption Qualification 105-8180, issued February 24, 1997, and to document compliance with Conditions D.2.2, D.2.11 and D.2.12, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the SO<sub>2</sub> emission limits established in Condition D.2.2. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
  - (1) Calendar dates covered in the compliance determination period;
  - (2) Actual coal and fuel oil usage since last compliance determination period;
  - (1) Sulfur content, heat content, and ash content;
  - (2) Sulfur dioxide emission rates.
- (b) To document compliance with Section C - Opacity and Conditions D.2.1, D.2.9, D.2.10, and D.2.12, the Permittee shall maintain records in accordance with (1) through (4) below. Records shall be complete and sufficient to establish compliance with the limits established in Section C - Opacity, and in Condition D.2.1. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
  - (1) Data and results from the most recent stack tests;
  - (2) All parametric monitoring readings;
  - (3) Records of the results of the multiclones= inspections (including usage hours); and
  - (4) All preventive maintenance measures taken.

- (b) To document compliance with Conditions D.2.4 and D.2.5, the Permittee shall maintain records of monthly average heat input (MMBtu per hour) for each boiler.
- (c) To document compliance with Condition D.2.6, the Permittee shall maintain records of fuel usage for boiler EU-05.
- (d) To document compliance with Condition D.2.13, the Permittee shall maintain records of daily visible emission notations of the stack 002 exhaust, during times when fuels other than natural gas are combusted.
- (e) To document compliance with Condition D.2.8, the Permittee shall maintain of records of any additional inspections prescribed by the Preventive Maintenance Plan.
- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.2.17 Reporting Requirements

- (a) Pursuant to OP 53-02-92-0081 and 0082, issued January 12, 1990, and 1265 Exemption Qualification 105-8180, issued February 24, 1997, a quarterly summary of the information to document compliance with Condition D.2.2 in any compliance period when coal or oil was combusted, and the natural gas fired boiler certification, shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.
- (b) A quarterly summary of the information to document compliance with Conditions D.2.3 and D.2.6 shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

## SECTION D.3

## FACILITY OPERATION CONDITIONS

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

- (d) One (1) coal, natural gas, No.1 or No.2 fuel oil fired boiler, identified as EU-06, constructed in 1970, with a maximum design capacity of 190 MMBtu per hour heat input when combusting coal and/or fuel oil, and 150 MMBtu per hour heat input (two natural gas fired burners rated at 75 MMBtu per hour heat input each) when combusting natural gas, equipped with low NOx burners for natural gas and/or fuel oil, a multiclone and an electrostatic precipitator for particulate control when combusting coal and/or fuel oil, and a continuous opacity monitor for monitoring opacity, exhausting to stack 003.

(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 Particulate Matter Limitation (PM) [326 IAC 6-2-3]

Pursuant to PC (55) 1731 issued February 15, 1989, and OP 53-02-92-0083 and 0084, issued January 5, 1990, and 326 IAC 6-2-3(d) (Particulate emission limitations for sources of indirect heating: emission limitations for facilities specified in 326 IAC 6-2-1(b)), the PM emissions from EU-06 shall not exceed 0.38 pounds of particulate matter per million British thermal units heat input. This limitation is based on the following equation:

$$P_t = \frac{(C * a * h)}{(76.5 * Q^{0.75} * N^{0.25})}$$

where: P<sub>t</sub> - PM limit in pounds per MMBtu  
C - Maximum ground level concentration  
a - Plume rise factor  
h - Stack height in feet  
Q - total source permitted capacity in MMBtu/hr = 740 MMBtu/hr  
N - Number of stacks

#### D.3.2 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1.1]

- (a) Pursuant to OP 53-02-92-0083 and 0084, issued January 5, 1990, and 326 IAC 7-1.1-2, sulfur dioxide emissions from boiler EU-06 shall not exceed 6.0 pounds per million British thermal units (lb/MMBtu) of heat input when combusting coal.
- (b) Pursuant to 326 IAC 7-1.1-2, for facilities (EU-06) combusting coal and oil simultaneously, sulfur dioxide emissions shall not exceed six and zero-tenths (6.0) pounds per million British thermal units (lb/MMBtu) of heat input, and when EU-06 is combusting No.1 or No.2 fuel oil, solely, sulfur dioxide emissions shall not exceed 0.5 pounds per million British thermal units (lb/MMBtu) of heat input.

#### D.3.3 Fuel Usage

Pursuant to 1265 Exemption Qualification 105-8527-00005, issued October 27, 1997, boiler EU-06 may use No.2 fuel oil as an alternative fuel source because it is cleaner than coal and causes no emissions increase when used in boiler EU-06.

#### D.3.4 Operation Standards [40 CFR 279][329 IAC 13]

All coal burned in boiler EU-06, including coal treated with any additive, shall meet ASTM specifications for classification as coal (ASTM D388).

#### D.3.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

- (a) A Preventive Maintenance Plan (PMP), in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their emission control devices.

- (b) The PMP for an electrostatic precipitator shall include the following inspections, performed according to the indicated schedules:
- (1) Plate and electrode alignment, every major maintenance outage, but no less than every 2 years;
  - (2) ESP TR set components, performed whenever there is an outage of any nature lasting more than three days, unless such inspections have been performed within the last six months. At a minimum, the following inspections shall be performed:
    - (A) Internal inspection of shell for corrosion (including but not limited to doors, hatches, insulator housings, and roof area).
    - (B) Effectiveness of rapping (including but not limited to buildup of dust on discharge electrodes and plates).
    - (C) Gas distribution (including but not limited to buildup of dust on distribution plates and turning vanes).
    - (D) Dust accumulation (including but not limited to buildup of dust on shell and support members that could result in grounds or promote advanced corrosion).
    - (E) Major misalignment of plates (including but not limited to a visual check of plate alignment).
    - (F) Rapper, vibrator and TR set control cabinets (including but not limited to motors and lubrication).
    - (G) Rapper assembly (including but not limited to loose bolts, ground wires, water in air lines, and solenoids).
    - (H) Vibrator and rapper seals (including but not limited to air in-leakage, wear, and deterioration).
    - (I) TR set controllers (including but not limited to low voltage trip point, over current trip point, and spark rate).
  - (3) Air and water infiltration, once per month. The recommended method for this inspection is for audible checks around ash hoppers/hatches, duct expansion joints, and areas of corrosion.
- (c) The PMP for a multiclone shall include inspections of the internal components of the multiclone, conducted every 2 years or six thousand (6,000) hours of operation, whichever occurs first, in accordance with the Section B - Preventive Maintenance Plan. Items to be checked include air infiltration, plugging of inlet spinner vanes, outlet tube erosion, deposits on the inside surfaces of the cyclone tubes, and plugging of the bottom of the cyclone tubes.

### **Compliance Determination Requirements**

#### **D.3.6 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]**

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- (a) Pursuant to the Amendment to OP 53-02-92-0079 through 0084, issued October 19, 1990, the Permittee shall stack test boiler EU-06 for particulate matter emissions to determine compliance with 326 IAC 6-2 every three years starting from the most recent compliant stack test.

These tests shall be performed no later than thirty-six (36) months after the most recent compliant stack test.

- (g) Compliance with Condition D.3.1 will be determined based on the testing schedule in part (a) of this condition, utilizing the appropriate methods, or other methods as approved by the Commissioner. Testing shall be conducted in accordance with Section C- Performance Testing.

#### D.3.7 Particulate and Opacity Control [326 IAC 2-7-6(6)]

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Except as otherwise provided by statute or rule, or in this permit;

- (a) The electrostatic precipitator shall be operated at all times (except periods of boiler startup) boiler EU-06 is operating and combusting coal and/or oil.
- (b) The multiclones for particulate control shall be in operation at all times when boiler EU-06 is in operation and EU-06 is combusting oil and/or coal.
- (c) The ability of the ESP to control particulate emissions shall be monitored continuously, when boiler EU-06 is in operation and combusting coal and/or fuel oil, by measuring and recording the opacity of emissions with a certified continuous opacity monitor.
- (d) Pursuant to the Amendment to Operating Permits 53-02-92-0079 through 0084, issued October 19, 1990, operation condition 12, one scheduled employee on each daytime shift shall be certified to read visible emissions.

#### D.3.8 Continuous Emissions Monitoring [326 IAC 3-5] [326 IAC 12]

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- (a) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), continuous emission monitoring system for boiler EU-06 (stack 003) shall be calibrated, maintained, and operated for measuring opacity which meet all applicable performance specifications of 326 IAC 3-5-2.
- (b) All continuous emission monitoring systems are subject to monitor system certification requirements pursuant to 326 IAC 3-5-3.
- (c) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to 326 IAC 3-5.

#### D.3.9 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 3-7][326 IAC 7-2][326 IAC 7-1.1-2]

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- (a) Pursuant to OP 53-02-92-0083 and 0084, issued January 12, 1990, and pursuant to 326 IAC 7-2-1(c), the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed six (6.0) pounds per MMBtu using a calendar month average when EU-06 is combusting coal, or coal in combination with another fuel.
- (b) Pursuant to 326 IAC 7-2-1(e) and 326 IAC 3-7, coal sampling and analysis data shall be collected as follows:
  - (1) Coal sampling shall be performed using the methods specified in 326 IAC 3-7-2(a), and sample preparation and analysis shall be performed as specified in 326 IAC 3-7-2(c), (d), and (e); or
  - (2) Pursuant to 326 IAC 3-7-2(b)(2) and 326 IAC 3-7-3, manual or other non-ASTM automatic sampling and analysis procedures may be used upon a demonstration, submitted to the department for approval, that such procedures provide sulfur dioxide emission estimates representative either of estimates based on coal sampling and analysis procedures specified in 326 IAC 3-7-2 or of continuous emissions monitoring; or

- (3) The Permittee shall meet the minimum sampling requirements specified in 326 IAC 3-7-2(b)(3), and sample preparation and analysis shall be performed as specified in 326 IAC 3-7-2(c), (d), and (e).
- (c) Upon written notification to IDEM by a facility owner or operator, continuous emission monitoring data collected and reported pursuant to 326 IAC 3-5 may be used as the means for determining compliance with the emission limitations in 326 IAC 7. Upon such notification, the other requirements of 326 IAC 7-2 shall not apply. [326 IAC 7-2-1(g)]

**D.3.10 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 3-7] [326 IAC 7-2] [326 IAC 7-1.1-2]**

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When EU-06 is combusting fuel oil, but not simultaneously with coal, compliance shall be determined utilizing one of the following options.

- (a) Pursuant to 326 IAC 3-7-4, 326 IAC 7-2, and 326 IAC 7-1.1-2, the Permittee shall demonstrate that the sulfur dioxide do not exceed the equivalent of 0.5 pounds per MMBtu, demonstrated on a calendar month average.
- (b) Pursuant to 326 IAC 7-2-1(e) and 326 IAC 3-7-4, fuel sampling and analysis data shall be collected as follows:
  - (1) The Permittee may rely upon vendor analysis of fuel delivered, if accompanied by a vendor certification [326 IAC 3-7-4(b)]; or,
  - (2) The Permittee shall perform sampling and analysis of fuel oil samples in accordance with 326 IAC 3-7-4(a).
    - (A) Oil samples shall be collected from the tanker truck load prior to transferring fuel to the storage tank; or
    - (B) Oil samples shall be collected from the storage tank immediately after each addition of fuel to the tank.
- (c) Upon written notification to IDEM by a facility owner or operator, continuous emission monitoring data collected and reported pursuant to 326 IAC 3-5 may be used as the means for determining compliance with the emission limitations in 326 IAC 7. Upon such notification, the other requirements of 326 IAC 7-2 shall not apply. [326 IAC 7-2-1(g)]

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

**D.3.11 Opacity Readings [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

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- (a) In the event of opacity exceeding twenty-five percent (25%) average opacity for three (3) consecutive six (6) minute averaging periods, appropriate response steps shall be taken in accordance with Section C - Response to Excursions or Exceedances such that the cause(s) of the excursion are identified and corrected and opacity levels are brought back below twenty-five percent (25%). Examples of expected response steps include, but are not limited to, boiler loads being reduced, and ESP transformer-rectifier (T-R) sets being returned to service.
- (b) Opacity readings in excess of twenty-five percent (25%) but not exceeding the opacity limit for the unit are not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

**D.3.12 Electrostatic Precipitator Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]**

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- (a) The ability of the ESP to control particulate emissions shall be monitored once per day, when boiler EU-06 is in operation and combusting coal and/or fuel oil, by measuring and recording the primary and secondary voltages and the currents of the transformer-rectifier (T-R) sets.

- (b) When for any one reading, operation is outside one of the normal ranges shown below, or a range established during the most recent stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A voltage or current reading outside of the normal range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

- |     |                          |             |
|-----|--------------------------|-------------|
| (1) | Primary voltage:         | 260 - 300 V |
| (2) | Secondary voltage:       | 35 - 55 kV  |
| (3) | T-R set primary current: | 50 -75 A    |

**D.3.13 Monitoring: Multiclones [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

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- (a) The ability of the multiclones to control particulate emissions from EU-06 shall be monitored at least once per day, when this boiler is in operation and combusting coal and/or fuel oil, by measuring and recording the pressure drop across the collector.
- (b) Reasonable response steps shall be taken in accordance with Section C - Response to Excursions or Exceedances whenever the pressure drop is outside of the normal operating range for the corresponding boiler steam load. A pressure drop reading that is outside normal range is not a deviation from this permit. 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 Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

**D.3.14 Record Keeping Requirements**

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- (a) Pursuant to OP 53-02-92-0083, issued January 5, 1990, and to document compliance with Condition D.3.2, the Permittee shall maintain records in accordance with (1) through (6) below. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
- (1) Calendar dates covered in the compliance determination period;
- (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide and particulate matter emission rates;
- (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period; and

If the fuel supplier certification is used to demonstrate compliance 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 and heat content of the fuel oil.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

- (b) Pursuant to OP 53-02-92-0083 and 0084, issued January 5, 1990, to document compliance with Condition D.3.2, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the SO<sub>2</sub> emission limits

established in D.3.2. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.

- (1) Calendar dates covered in the compliance determination period;
  - (2) Actual coal usage since last compliance determination period;
  - (3) Sulfur content, heat content, ash content;
  - (4) Sulfur dioxide emission rates.
- (c) To document compliance with Section C - Opacity and Conditions D.3.1, D.3.7, D.3.8, D.3.11, D.3.12, and D.3.13, the Permittee shall maintain records in accordance with (1) through (5) below. Records shall be complete and sufficient to establish compliance with the limits established in Section C - Opacity, and in Condition D.3.1. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
- (1) Data and results from the most recent stack test(s).
  - (2) All continuous monitoring data, pursuant to 326 IAC 3-5.
  - (3) The results of all visible emission (VE) notations and/or Method 9 visible emission readings taken during any periods of COM downtime for stack 003. When the COM is down, the Permittee shall include in this record when a visible emission notation or a Method 9 visible emission reading are not taken and the reason for the lack of a visible emission notation and Method 9 reading (e.g. the process did not operate that day).
  - (4) All ESP and multiclone parametric monitoring readings.
  - (5) Records of the results of the ESP and multiclones' inspections (including usage hours).
- (d) Pursuant to the Amendment to Operating Permits 53-02-92-0079 through 0084, issued October 19, 1990, operation conditions 9 and 15, daily operating reports, boiler operation logs, and boiler shutdown checklists which are generated in the ordinary course of operation shall be kept and made available upon request of the Office of Air Quality. These records shall be kept for the last 24 month time period.
- (e) Pursuant to 326 IAC 3-7-5(a), the Permittee shall develop a standard operating procedure (SOP) to be followed for sampling, handling, analysis, quality control, quality assurance, and data reporting of the information collected pursuant to 326 IAC 3-7-2 through 326 IAC 3-7-4. In addition, any revision to the SOP shall be submitted to IDEM, OAQ.
- (f) All records shall be maintained in accordance with Section C- General Record Keeping Requirements, of this permit.

#### D.3.15 Reporting Requirements

- (a) Pursuant to PC (55) 1731, issued February 15, 1989 and OP 53-02-92-0083 and 0084, issued January 5, 1990, a quarterly summary of the information to document compliance with Conditions D.3.2, D.3.9 and D.3.10 in any compliance period when coal, natural gas, or fuel oil was combusted, and the natural gas fired boiler certification, shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.
- (b) Quarterly report of opacity exceedances shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, 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).

- (c) A quarterly summary of the information to document compliance with Conditions D.3.9(a) and D.3.10(a) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, 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.4 FACILITY OPERATION CONDITIONS

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

- (e) One (1) coal storage and handling system, with a maximum design throughput of 200 tons of coal per hour and 210,000 tons of coal per year, consisting of the following:
- (1) One (1) coal truck receiving system, consisting of an interior wet suppression system to control coal dust emissions during coal receiving, and two (2) truck hoppers.
  - (2) Four (4) enclosed belt conveyors, and one (1) enclosed bucket conveyor, with particulate emissions controlled by a fabric filter system, with four (4) dust collectors, identified as DC1 through 4, located internally at various points along the enclosed conveyor system, with all dust collectors exhausting internally.
  - (3) One (1) coal storage silo with a storage capacity of 1,000 tons of coal, with particulate emissions controlled by one (1) dust collector, identified as DC6, exhausting externally at vent 6.

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

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

#### D.4.1 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the coal storage and handling system shall not exceed 58.5 pounds per hour when operating at a process weight rate of 400,000 pounds per hour as established in the following formula:

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

#### D.4.2 Fugitive Dust Emissions [326 IAC 6-4]

Pursuant to Minor Source Modification 105-11356-00005, issued July 21, 2000, and 326 IAC 6-4 (Fugitive Dust Emissions), 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.

#### D.4.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Pursuant to Minor Source Modification 105-11356-00005, issued July 21, 2000, a Preventive Maintenance Plan (PMP), in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and the control device(s).

### Compliance Determination Requirements

#### D.4.4 Particulate Matter (PM)

Pursuant to Minor Source Modification 105-11356-00005, issued July 21, 2000;

- (a) The coal truck receiving interior wet suppression system shall be in operation and control the PM emissions from the associated equipment at all times that the coal receiving system is in operation.
- (b) The dust collectors (DC1 through DC4), all for PM control, shall be in operation and control the PM emissions from their associated equipment at all times that the coal storage and handling system is in operation.

- (c) All equipment exhausting internally (DC1 through DC4) for the coal storage and handling system shall not exhaust to the atmosphere at any time the system is in operation.
- (d) Dust collector DC6, for PM control, shall be in operation and control the PM emissions from the silo when it is receiving coal.

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

##### **D.4.5 Visible Emissions Notations**

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- (a) Once per day visible emission notations of the dust collector DC6 vent exhaust shall be performed during normal daylight operations when exhausting to the atmosphere, and when the silo is receiving coal. A trained employee shall record whether emissions are normal or abnormal.
- (b) Once per day visible emission notations of the coal truck receiving system shall be performed during normal daylight operations when either of the two (2) truck hoppers are receiving coal. A trained employee shall record whether emissions are normal or abnormal.
- (c) 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.
- (d) 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.
- (e) 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.
- (f) If any visible emissions of dust are observed from the coal storage and handling system, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Observation of visible emissions that do not violate 326 IAC 6-4 (Fugitive Dust Emissions) or an applicable opacity limit is not a deviation from this permit.
- (g) If abnormal emissions are observed from the coal storage and handling system, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Observation of abnormal emissions that do not violate 326 IAC 6-4 (Fugitive Dust Emissions) or an applicable opacity limit is not a deviation from this permit.
- (h) 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.

##### **D.4.6 Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

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- (a) By calendar, quarterly inspections shall be performed to verify the placement, integrity and particle loading of the filter DC6. The Response to Excursions or Exceedances shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (b) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

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

### **D.4.7 Record Keeping Requirements**

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- (a) To document compliance with Condition D.4.5, the Permittee shall maintain records of visible emission notations of the dust collector vent for DC6, and of the coal truck receiving system at each time when coal is being received by the silo and either of the truck hoppers, respectively.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.
- (c) To document compliance with Condition D.4.6, the Permittee shall maintain a log of quarterly inspections.
- (d) Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.

## SECTION D.5 FACILITY OPERATION CONDITIONS - Insignificant Operations

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

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour:
  - (1) Twenty-two (22) boilers constructed before 1972, with a combined total heat input of 29.130 MMBtu per hour.
  - (2) One (1) boiler constructed in 1977, with a heat input of 0.60 MMBtu per hour.
  - (3) One (1) boiler constructed in 1981, with a heat input of 0.110 MMBtu per hour.
  - (4) Fifty-seven (57) boilers constructed after 1983, with a combined heat input of 135.39 MMBtu per hour.
- (b) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.
- (c) Oil fired emergency generators not exceeding 1,600 horsepower:
  - (1) One (1) emergency generator at MSB 1 rated at 1200 horsepower.

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

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

#### D.5.1 PSD Minor Limits [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, emergency generator MSB 1 shall be limited as follows:

The operating hours for the emergency generator MSB 1 shall not exceed 250 hours per twelve (12) consecutive month period with compliance determined at the end of each month.

Compliance with these limits combined with the potential emissions of boiler EU-07 will limit SO<sub>2</sub> emissions to less than 40 tons per year, PM<sub>10</sub> emissions to less than 15 tons per year, and NO<sub>x</sub> emissions to less than 40 tons per year from the modification permitted under SSM 105-24626-00005 and will render the requirements of 326 IAC 2-2 (PSD) not applicable for SO<sub>2</sub>, PM<sub>10</sub>, and NO<sub>x</sub>.

#### D.5.2 Particulate Emission Limitations for Sources of Indirect Heating [326 IAC 6-2]

- (a) Pursuant to 326 IAC 6-2-3 (Particulate Emission Limitations for Sources of Indirect Heating: Emission limitations for facilities specified in 326 IAC 6-2-1(c)), part (b), the emission limitations for those indirect heating facilities which were existing and in operation on or before June 8, 1972, shall not exceed the pound per million Btu heat input (lb/MMBtu) calculated using the following equation:

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

Where C = 50  $\phi/m^3$

Q = total source capacity (MMBtu/hr)

N = number of stacks

a = 0.67

h = average stack height (feet)

Pursuant to 326 IAC 6-2-3(b), the emission limitations for those indirect heating facilities which were existing and in operation on or before June 8, 1972, shall be calculated using the above equation where Q, N, and h include the parameters for all facilities in operation on June 8, 1972.

- (b) Pursuant to 326 IAC 6-2-3(c), the emission limitations for those indirect heating facilities which began operation after June 8, 1972, and before September 21, 1983, shall be calculated using the above equation where Q, N, and h include the parameters for the facility in question and for those facilities which were previously constructed.
- (c) Pursuant to 326 IAC 6-2-3(d), particulate emissions from all facilities used for indirect heating purposes which were existing and in operation on or before June 8, 1972, shall in no case exceed 0.8 lb/MMBtu heat input.
- (d) Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating: Emission limitations for facilities specified in 326 IAC 6-2-1(d)), the PM emissions from indirect heating facilities constructed after September 21, 1983, shall not exceed the pound per million Btu heat input (lb/MMBtu) calculated using the following equation:

$$Pt = \frac{1.09}{Q^{0.26}} \quad \text{Where } Q = \text{total source capacity (MMBtu/hr)}$$

#### D.5.3 Volatile Organic Compounds (VOC)

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Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), 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.5.4 Volatile Organic Compounds (VOC)

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- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:
  - (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
    - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
    - (B) The solvent is agitated; or
    - (C) The solvent is heated.
  - (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under

the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

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

#### D.5.5 Particulate Emission Limitations for Manufacturing Processes (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes), the allowable PM emission rate from the Lime silo or the carbon silo shall not exceed 37 pounds per hour when operating at a process weight rate of 26.7 tons per hour and as established in the following formula:

Interpolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

#### **Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

##### D.5.6 Record Keeping Requirements

To document compliance with Condition D.5.1, the Permittee shall maintain monthly records of the operating hours for the emergency generator MSB 1.

##### D.5.7 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.5.1 shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

## SECTION E.1

## FACILITY OPERATION CONDITIONS

### Emission Unit Description [326 IAC 2-7-5(15)]

- (a) One (1) natural gas or low-sulfur No. 2 fuel oil fired boiler, identified as EU-07, approved for construction in 2007, with a maximum design capacity of 217 MMBtu per hour when combusting natural gas and 208 MMBtu per hour when combusting fuel oil, and equipped with low NOx burners and induced flue gas recirculation for NOx control, exhausting to stack 002. Under 40 CFR 60, Subpart Db this is a new affected source.

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

### New Source Performance Standards (NSPS) Requirements: [326 IAC 2-7-5(1)]

#### E.1.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]

- (a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60 Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1 for the boiler EU-07, except as otherwise specified in 40 CFR Part 60, Subpart Db.
- (b) Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports 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

#### E.1.2 Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units Requirements [40 CFR Part 60, Subpart Db] [326 IAC 12]

Pursuant to 40 CFR Part 60, Subpart Db, the Permittee shall comply with the provisions of Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units, which are incorporated by reference as 326 IAC 12, for the boiler EU-07 as specified as follows:

### Subpart Db—Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units

**Source:** 72 FR 32742, June 13, 2007, unless otherwise noted.

#### § 60.40b Applicability and delegation of authority.

(a) The affected facility to which this subpart applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 29 MW (100 million Btu/hour).

(j) Any affected facility meeting the applicability requirements under paragraph (a) of this section and commencing construction, modification, or reconstruction after June 19, 1986 is not subject to subpart D (Standards of Performance for Fossil-Fuel-Fired Steam Generators, §60.40).

#### § 60.41b Definitions.

As used in this subpart, all terms not defined herein shall have the meaning given them in the Clean Air Act and in subpart A of this part.

*Annual capacity factor* means the ratio between the actual heat input to a steam generating unit from the fuels listed in §60.42b(a), §60.43b(a), or §60.44b(a), as applicable, during a calendar year and the potential heat input to the steam generating unit had it been operated for 8,760 hours during a calendar year at the maximum steady state design heat input capacity. In the case of steam generating units that

are rented or leased, the actual heat input shall be determined based on the combined heat input from all operations of the affected facility in a calendar year.

*Byproduct/waste* means any liquid or gaseous substance produced at chemical manufacturing plants, petroleum refineries, or pulp and paper mills (except natural gas, distillate oil, or residual oil) and combusted in a steam generating unit for heat recovery or for disposal. Gaseous substances with carbon dioxide (CO<sub>2</sub>) levels greater than 50 percent or carbon monoxide levels greater than 10 percent are not byproduct/waste for the purpose of this subpart.

*Chemical manufacturing plants* mean industrial plants that are classified by the Department of Commerce under Standard Industrial Classification (SIC) Code 28.

*Coal* means all solid fuels classified as anthracite, bituminous, subbituminous, or lignite by the American Society of Testing and Materials in ASTM D388 (incorporated by reference, see §60.17), coal refuse, and petroleum coke. Coal-derived synthetic fuels, including but not limited to solvent refined coal, gasified coal, coal-oil mixtures, coke oven gas, and coal-water mixtures, are also included in this definition for the purposes of this subpart.

*Coal refuse* means any byproduct of coal mining or coal cleaning operations with an ash content greater than 50 percent, by weight, and a heating value less than 13,900 kJ/kg (6,000 Btu/lb) on a dry basis.

*Cogeneration*, also known as combined heat and power, means a facility that simultaneously produces both electric (or mechanical) and useful thermal energy from the same primary energy source.

*Coke oven gas* means the volatile constituents generated in the gaseous exhaust during the carbonization of bituminous coal to form coke.

*Combined cycle system* means a system in which a separate source, such as a gas turbine, internal combustion engine, kiln, etc., provides exhaust gas to a steam generating unit.

*Conventional technology* means wet flue gas desulfurization (FGD) technology, dry FGD technology, atmospheric fluidized bed combustion technology, and oil hydrodesulfurization technology.

*Distillate oil* means fuel oils that contain 0.05 weight percent nitrogen or less and comply with the specifications for fuel oil numbers 1 and 2, as defined by the American Society of Testing and Materials in ASTM D396 (incorporated by reference, see §60.17).

*Dry flue gas desulfurization technology* means a SO<sub>2</sub> control system that is located downstream of the steam generating unit and removes sulfur oxides from the combustion gases of the steam generating unit by contacting the combustion gases with an alkaline reagent and water, whether introduced separately or as a premixed slurry or solution and forming a dry powder material. This definition includes devices where the dry powder material is subsequently converted to another form. Alkaline slurries or solutions used in dry flue gas desulfurization technology include but are not limited to lime and sodium.

*Duct burner* means a device that combusts fuel and that is placed in the exhaust duct from another source, such as a stationary gas turbine, internal combustion engine, kiln, etc., to allow the firing of additional fuel to heat the exhaust gases before the exhaust gases enter a steam generating unit.

*Emerging technology* means any SO<sub>2</sub> control system that is not defined as a conventional technology under this section, and for which the owner or operator of the facility has applied to the Administrator and received approval to operate as an emerging technology under §60.49b(a)(4).

*Federally enforceable* means all limitations and conditions that are enforceable by the Administrator, including the requirements of 40 CFR parts 60 and 61, requirements within any applicable State Implementation Plan, and any permit requirements established under 40 CFR 52.21 or under 40 CFR 51.18 and 51.24.

*Fluidized bed combustion technology* means combustion of fuel in a bed or series of beds (including but not limited to bubbling bed units and circulating bed units) of limestone aggregate (or other sorbent materials) in which these materials are forced upward by the flow of combustion air and the gaseous products of combustion.

*Fuel pretreatment* means a process that removes a portion of the sulfur in a fuel before combustion of the fuel in a steam generating unit.

*Full capacity* means operation of the steam generating unit at 90 percent or more of the maximum steady-state design heat input capacity.

*Gaseous fuel* means any fuel that is present as a gas at ISO conditions.

*Gross output* means the gross useful work performed by the steam generated. For units generating only electricity, the gross useful work performed is the gross electrical output from the turbine/generator set. For cogeneration units, the gross useful work performed is the gross electrical or mechanical output plus 75 percent of the useful thermal output measured relative to ISO conditions that is not used to generate additional electrical or mechanical output (i.e., steam delivered to an industrial process).

*Heat input* means heat derived from combustion of fuel in a steam generating unit and does not include the heat derived from preheated combustion air, recirculated flue gases, or exhaust gases from other sources, such as gas turbines, internal combustion engines, kilns, etc.

*Heat release rate* means the steam generating unit design heat input capacity (in MW or Btu/hr) divided by the furnace volume (in cubic meters or cubic feet); the furnace volume is that volume bounded by the front furnace wall where the burner is located, the furnace side waterwall, and extending to the level just below or in front of the first row of convection pass tubes.

*Heat transfer medium* means any material that is used to transfer heat from one point to another point.

*High heat release rate* means a heat release rate greater than 730,000 J/sec-m<sup>3</sup> (70,000 Btu/hr-ft<sup>3</sup>).

*ISO Conditions* means a temperature of 288 Kelvin, a relative humidity of 60 percent, and a pressure of 101.3 kilopascals.

*Lignite* means a type of coal classified as lignite A or lignite B by the American Society of Testing and Materials in ASTM D388 (incorporated by reference, see §60.17).

*Low heat release rate* means a heat release rate of 730,000 J/sec-m<sup>3</sup> (70,000 Btu/hr-ft<sup>3</sup>) or less.

*Mass-feed stoker steam generating unit* means a steam generating unit where solid fuel is introduced directly into a retort or is fed directly onto a grate where it is combusted.

*Maximum heat input capacity* means the ability of a steam generating unit to combust a stated maximum amount of fuel on a steady state basis, as determined by the physical design and characteristics of the steam generating unit.

*Municipal-type solid waste* means refuse, more than 50 percent of which is waste consisting of a mixture of paper, wood, yard wastes, food wastes, plastics, leather, rubber, and other combustible materials, and noncombustible materials such as glass and rock.

*Natural gas* means: (1) A naturally occurring mixture of hydrocarbon and nonhydrocarbon gases found in geologic formations beneath the earth's surface, of which the principal constituent is methane; or (2) liquefied petroleum gas, as defined by the American Society for Testing and Materials in ASTM D1835 (incorporated by reference, see §60.17).

*Noncontinental area* means the State of Hawaii, the Virgin Islands, Guam, American Samoa, the Commonwealth of Puerto Rico, or the Northern Mariana Islands.

*Oil* means crude oil or petroleum or a liquid fuel derived from crude oil or petroleum, including distillate and residual oil.

*Petroleum refinery* means industrial plants as classified by the Department of Commerce under Standard Industrial Classification (SIC) Code 29.

*Potential sulfur dioxide emission rate* means the theoretical SO<sub>2</sub> emissions (nanograms per joule (ng/J) or lb/MMBtu heat input) that would result from combusting fuel in an uncleaned state and without using emission control systems.

*Process heater* means a device that is primarily used to heat a material to initiate or promote a chemical reaction in which the material participates as a reactant or catalyst.

*Pulp and paper mills* means industrial plants that are classified by the Department of Commerce under North American Industry Classification System (NAICS) Code 322 or Standard Industrial Classification (SIC) Code 26.

*Pulverized coal-fired steam generating unit* means a steam generating unit in which pulverized coal is introduced into an air stream that carries the coal to the combustion chamber of the steam generating unit where it is fired in suspension. This includes both conventional pulverized coal-fired and micropulverized coal-fired steam generating units. Residual oil means crude oil, fuel oil numbers 1 and 2 that have a nitrogen content greater than 0.05 weight percent, and all fuel oil numbers 4, 5 and 6, as defined by the American Society of Testing and Materials in ASTM D396 (incorporated by reference, see §60.17).

*Spreader stoker steam generating unit* means a steam generating unit in which solid fuel is introduced to the combustion zone by a mechanism that throws the fuel onto a grate from above. Combustion takes place both in suspension and on the grate.

*Steam generating unit* means a device that combusts any fuel or byproduct/waste and produces steam or heats water or any other heat transfer medium. This term includes any municipal-type solid waste incinerator with a heat recovery steam generating unit or any steam generating unit that combusts fuel and is part of a cogeneration system or a combined cycle system. This term does not include process heaters as they are defined in this subpart.

*Steam generating unit operating day* means a 24-hour period between 12:00 midnight and the following midnight during which any fuel is combusted at any time in the steam generating unit. It is not necessary for fuel to be combusted continuously for the entire 24-hour period.

*Very low sulfur oil* means for units constructed, reconstructed, or modified on or before February 28, 2005, an oil that contains no more than 0.5 weight percent sulfur or that, when combusted without SO<sub>2</sub> emission control, has a SO<sub>2</sub> emission rate equal to or less than 215 ng/J (0.5 lb/MMBtu) heat input. For units constructed, reconstructed, or modified after February 28, 2005, *very low sulfur oil* means an oil that contains no more than 0.3 weight percent sulfur or that, when combusted without SO<sub>2</sub> emission control, has a SO<sub>2</sub> emission rate equal to or less than 140 ng/J (0.32 lb/MMBtu) heat input.

*Wet flue gas desulfurization technology* means a SO<sub>2</sub> control system that is located downstream of the steam generating unit and removes sulfur oxides from the combustion gases of the steam generating unit by contacting the combustion gas with an alkaline slurry or solution and forming a liquid material. This definition applies to devices where the aqueous liquid material product of this contact is subsequently converted to other forms. Alkaline reagents used in wet flue gas desulfurization technology include, but are not limited to, lime, limestone, and sodium.

*Wet scrubber system* means any emission control device that mixes an aqueous stream or slurry with the exhaust gases from a steam generating unit to control emissions of PM or SO<sub>2</sub>.

*Wood* means wood, wood residue, bark, or any derivative fuel or residue thereof, in any form, including, but not limited to, sawdust, sanderdust, wood chips, scraps, slabs, millings, shavings, and processed pellets made from wood or other forest residues.

#### **§ 60.42b Standard for sulfur dioxide.**

(e) Except as provided in paragraph (f) of this section, compliance with the emission limits, fuel oil sulfur limits, and/or percent reduction requirements under this section are determined on a 30-day rolling average basis.

(j) Percent reduction requirements are not applicable to affected facilities combusting only very low sulfur oil. The owner or operator of an affected facility combusting very low sulfur oil shall demonstrate that the oil meets the definition of very low sulfur oil by: (1) Following the performance testing procedures as described in §60.45b(c) or §60.45b(d), and following the monitoring procedures as described in §60.47b(a) or §60.47b(b) to determine SO<sub>2</sub> emission rate or fuel oil sulfur content; or (2) maintaining fuel records as described in §60.49b(r).

(k)(1) Except as provided in paragraphs (k)(2), (k)(3), and (k)(4) of this section, on and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that commences construction, reconstruction, or modification after February 28, 2005, and that combusts coal, oil, natural gas, a mixture of these fuels, or

a mixture of these fuels with any other fuels shall cause to be discharged into the atmosphere any gases that contain SO<sub>2</sub> in excess of 87 ng/J (0.20 lb/MMBtu) heat input or 8 percent (0.08) of the potential SO<sub>2</sub> emission rate (92 percent reduction) and 520 ng/J (1.2 lb/MMBtu) heat input.

(2) Units firing only very low sulfur oil and/or a mixture of gaseous fuels with a potential SO<sub>2</sub> emission rate of 140 ng/J (0.32 lb/MMBtu) heat input or less are exempt from the SO<sub>2</sub> emissions limit in paragraph 60.42b(k)(1).

**§ 60.43b Standard for particulate matter.**

(f) On and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that combusts coal, oil, wood, or mixtures of these fuels with any other fuels shall cause to be discharged into the atmosphere any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.

(g) The PM and opacity standards apply at all times, except during periods of startup, shutdown or malfunction.

(h)(5) On and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, an owner or operator of an affected facility that commences construction, reconstruction, or modification after February 28, 2005, and that combusts only oil that contains no more than 0.3 weight percent sulfur, coke oven gas, a mixture of these fuels, or either fuel (or a mixture of these fuels) in combination with other fuels not subject to a PM standard under §60.43b and not using a post-combustion technology (except a wet scrubber) to reduce SO<sub>2</sub> or PM emissions is not subject to the PM limits under §60.43b(h)(1).

**§ 60.44b Standard for nitrogen oxides.**

(a) Except as provided under paragraphs (k) and (l) of this section, on and after the date on which the initial performance test is completed or is required to be completed under §60.8 of this part, whichever date comes first, no owner or operator of an affected facility that is subject to the provisions of this section and that combusts only coal, oil, or natural gas shall cause to be discharged into the atmosphere from that affected facility any gases that contain nitrogen oxides (expressed as NO<sub>2</sub>) in excess of the following emission limits:

Fuel/Steam generating unit type	Nitrogen oxide emission limits ng/J (lb/million Btu) (expressed as NO <sub>2</sub> ) heat input
(1) Natural gas and distillate oil, except (4):	
(i) Low heat release rate	43 (0.10)
(ii) High heat release rate	86 (0.20)
(2) Residual oil:	
(i) Low heat release rate	130 (0.30)
(ii) High heat release rate	170 (0.40)
(3) Coal:	
(i) Mass-feed stoker	210 (0.50)
(ii) Spreader stoker and fluidized bed combustion	260 (0.60)
(iii) Pulverized coal	300 (0.70)
(iv) Lignite, except (v)	260 (0.60)
(v) Lignite mined in North Dakota, South Dakota, or Montana and combusted in a slag tap furnace	340 (0.80)
(vi) Coal-derived synthetic fuels	210 (0.50)

(4) Duct burner used in a combined cycle system:	
(i) Natural gas and distillate oil	86 (0.20)
(ii) Residual oil	170 (0.40)

(h) For purposes of paragraph (i) of this section, the nitrogen oxide standards under this section apply at all times including periods of startup, shutdown, or malfunction.

(i) Except as provided under paragraph (j) of this section, compliance with the emission limits under this section is determined on a 30-day rolling average basis.

(l) On and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that commenced construction or reconstruction after July 9, 1997 shall cause to be discharged into the atmosphere from that affected facility any gases that contain  $\text{NO}_x$  (expressed as  $\text{NO}_2$ ) in excess of the following limits:

(1) If the affected facility combusts coal, oil, or natural gas, or a mixture of these fuels, or with any other fuels: A limit of 86 ng/J (0.20 lb/MMBtu) heat input unless the affected facility has an annual capacity factor for coal, oil, and natural gas of 10 percent (0.10) or less and is subject to a federally enforceable requirement that limits operation of the facility to an annual capacity factor of 10 percent (0.10) or less for coal, oil, and natural gas; or

**§ 60.45b Compliance and performance test methods and procedures for sulfur dioxide.**

(j) The owner or operator of an affected facility that combusts very low sulfur oil is not subject to the compliance and performance testing requirements of this section if the owner or operator obtains fuel receipts as described in §60.49b(r).

(k) Units that burn only oil that contains no more than 0.3 weight percent sulfur or fuels with potential sulfur dioxide emission rates of 140 ng/J (0.32 lb/MMBtu) heat input or less may demonstrate compliance by maintaining records of fuel supplier certifications of sulfur content of the fuels burned.

**§ 60.46b Compliance and performance test methods and procedures for particulate matter and nitrogen oxides.**

(a) The PM emission standards and opacity limits under §60.43b apply at all times except during periods of startup, shutdown, or malfunction. The  $\text{NO}_x$  emission standards under §60.44b apply at all times.

(c) Compliance with the  $\text{NO}_x$  emission standards under §60.44b shall be determined through performance testing under paragraph (e) or (f), or under paragraphs (g) and (h) of this section, as applicable.

(e) To determine compliance with the emission limits for  $\text{NO}_x$  required under §60.44b, the owner or operator of an affected facility shall conduct the performance test as required under §60.8 using the continuous system for monitoring  $\text{NO}_x$  under §60.48(b).

(1) For the initial compliance test,  $\text{NO}_x$  from the steam generating unit are monitored for 30 successive steam generating unit operating days and the 30-day average emission rate is used to determine compliance with the  $\text{NO}_x$  emission standards under §60.44b. The 30-day average emission rate is calculated as the average of all hourly emissions data recorded by the monitoring system during the 30-day test period.

(4) Following the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, the owner or operator of an affected facility that has a heat input capacity of 73 MW (250 MMBtu/hr) or less and that combusts natural gas, distillate oil, or residual oil having a nitrogen content of 0.30 weight percent or less shall upon request determine compliance with the  $\text{NO}_x$  standards under §60.44b through the use of a 30-day performance test. During periods when performance tests are not requested,  $\text{NO}_x$  emissions data collected pursuant to §60.48b(g)(1) or §60.48b(g)(2) are used to calculate a 30-day rolling average emission rate on a daily basis and used to prepare excess emission reports, but will not be used to determine compliance with the  $\text{NO}_x$  emission standards. A new 30-day rolling average emission rate is calculated each steam generating unit operating

day as the average of all of the hourly NO<sub>x</sub> emission data for the preceding 30 steam generating unit operating days.

(i) Units burning only oil that contains no more than 0.3 weight percent sulfur or liquid or gaseous fuels with a potential sulfur dioxide emission rates of 140 ng/J (0.32 lb/MMBtu) heat input or less may demonstrate compliance by maintaining fuel supplier certifications of the sulfur content of the fuels burned.

**§ 60.47b Emission monitoring for sulfur dioxide.**

(f) The owner or operator of an affected facility that combusts very low sulfur oil is not subject to the emission monitoring requirements of this section if the owner or operator obtains fuel receipts as described in §60.49b(r).

(g) Units burning any fuel with a potential sulfur dioxide emission rate of 140 ng/J (0.32 lb/MMBtu) heat input or less are not required to conduct emissions monitoring if they maintain fuel supplier certifications of the sulfur content of the fuels burned.

**§ 60.48b Emission monitoring for particulate matter and nitrogen oxides.**

(a) The particulate matter emission standards and opacity limits under §60.43b apply at all times except during periods of startup, shutdown, or malfunction, and as specified in paragraphs (i) and (j) of this section. The nitrogen oxides emission standards under §60.44b apply at all times.

(b) Except as provided under paragraphs (g), (h), and (i) of this section, the owner or operator of an affected facility subject to a NO<sub>x</sub> standard under §60.44b shall comply with either paragraphs (b)(1) or (b)(2) of this section.

(1) Install, calibrate, maintain, and operate a continuous monitoring system, and record the output of the system, for measuring nitrogen oxides emissions discharged to the atmosphere; or

(c) The CEMS required under paragraph (b) of this section shall be operated and data recorded during all periods of operation of the affected facility except for CEMS breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.

(d) The 1-hour average nitrogen oxides emission rates measured by the continuous nitrogen oxides monitor required by paragraph (b) of this section and required under §60.13(h) shall be expressed in ng/J or lb/MMBtu heat input and shall be used to calculate the average emission rates under §60.44b. The 1-hour averages shall be calculated using the data points required under §60.13(h)(2).

(e) The procedures under §60.13 shall be followed for installation, evaluation, and operation of the continuous monitoring systems.

(2) For affected facilities combusting coal, oil, or natural gas, the span value for nitrogen oxides is determined as follows:

Fuel	Span values for nitrogen oxides (PPM)
Natural gas	500
Oil	500
Coal	1,000
Mixtures	$500(x+y)+1,000z$

where:

x is the fraction of total heat input derived from natural gas,

y is the fraction of total heat input derived from oil, and

z is the fraction of total heat input derived from coal.

(ii) As an alternative to meeting the requirements of paragraph (e)(2)(i) of this section, the owner or operator of an affected facility may elect to use the NO<sub>x</sub> span values determined according to section 2.1.2 in appendix A to part 75 of this chapter.

(3) All span values computed under paragraph (e)(2)(i) of this section for combusting mixtures of regulated fuels are rounded to the nearest 500 ppm. Span values computed under paragraph (e)(2)(ii) of this section shall be rounded off according to section 2.1.2 in appendix A to part 75 of this chapter.

(f) When NO<sub>x</sub> emission data are not obtained because of CEMS breakdowns, repairs, calibration checks and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7, Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.

(j) The owner or operator of an affected facility that meets the conditions in either paragraph (j)(1), (2), (3), (4), or (5) of this section is not required to install or operate a COMS for measuring opacity if:

(5) The affected facility burns only gaseous fuels or fuel oils that contain less than or equal to 0.30 weight percent sulfur and operates according to a written site-specific monitoring plan approved by the appropriate delegated permitting authority. This monitoring plan must include procedures and criteria for establishing and monitoring specific parameters for the affected facility indicative of compliance with the opacity standard.

#### **§ 60.49b Reporting and recordkeeping requirements.**

(a) The owner or operator of each affected facility shall submit notification of the date of initial startup, as provided by §60.7. This notification shall include:

(1) The design heat input capacity of the affected facility and identification of the fuels to be combusted in the affected facility,

(2) If applicable, a copy of any Federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under §§60.42b(d)(1), 60.43b(a)(2), (a)(3)(iii), (c)(2)(ii), (d)(2)(iii), 60.44b(c), (d), (e), (i), (j), (k), 60.45b(d), (g), 60.46b(h), or 60.48b(i),

(3) The annual capacity factor at which the owner or operator anticipates operating the facility based on all fuels fired and based on each individual fuel fired,

(b) The owner or operator of each affected facility subject to the sulfur dioxide, particulate matter, and/or nitrogen oxides emission limits under §§60.42b, 60.43b, and 60.44b shall submit to the Administrator the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in appendix B. The owner or operator of each affected facility described in §60.44b(j) or §60.44b(k) shall submit to the Administrator the maximum heat input capacity data from the demonstration of the maximum heat input capacity of the affected facility.

(d) The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.

(g) Except as provided under paragraph (p) of this section, the owner or operator of an affected facility subject to the nitrogen oxides standards under §60.44b shall maintain records of the following information for each steam generating unit operating day:

(1) Calendar date.

(2) The average hourly nitrogen oxides emission rates (expressed as NO<sub>2</sub>) (ng/J or lb/million Btu heat input) measured or predicted.

(3) The 30-day average nitrogen oxides emission rates (ng/J or lb/million Btu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days.

(4) Identification of the steam generating unit operating days when the calculated 30-day average nitrogen oxides emission rates are in excess of the nitrogen oxides emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken.

- (5) Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken.
- (6) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data.
- (7) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted.
- (8) Identification of the times when the pollutant concentration exceeded full span of the continuous monitoring system.
- (9) Description of any modifications to the continuous monitoring system that could affect the ability of the continuous monitoring system to comply with Performance Specification 2 or 3.
- (10) Results of daily CEMS drift tests and quarterly accuracy assessments as required under appendix F, Procedure 1.
- (h) The owner or operator of any affected facility in any category listed in paragraphs (h) (1) or (2) of this section is required to submit excess emission reports for any excess emissions which occurred during the reporting period.
- (1) Any affected facility subject to the opacity standards under §60.43b(e) or to the operating parameter monitoring requirements under §60.13(i)(1).
- (2) Any affected facility that is subject to the nitrogen oxides standard of §60.44b, and that
- (i) Combusts natural gas, distillate oil, or residual oil with a nitrogen content of 0.3 weight percent or less, or
- (ii) Has a heat input capacity of 73 MW (250 million Btu/hour) or less and is required to monitor nitrogen oxides emissions on a continuous basis under §60.48b(g)(1) or steam generating unit operating conditions under §60.48b(g)(2).
- (i) The owner or operator of any affected facility subject to the continuous monitoring requirements for nitrogen oxides under §60.48(b) shall submit reports containing the information recorded under paragraph (g) of this section.
- (o) All records required under this section shall be maintained by the owner or operator of the affected facility for a period of 2 years following the date of such record.
- (r) The owner or operator of an affected facility who elects to use the fuel based compliance alternatives in §60.42b or §60.43b shall either:
- (1) The owner or operator of an affected facility who elects to demonstrate that the affected facility combusts only very low sulfur oil under §60.42b(j)(2) or §60.42b(k)(2) shall obtain and maintain at the affected facility fuel receipts from the fuel supplier that certify that the oil meets the definition of distillate oil as defined in §60.41b and the applicable sulfur limit. For the purposes of this section, the distillate oil need not meet the fuel nitrogen content specification in the definition of distillate oil. Reports shall be submitted to the Administrator certifying that only very low sulfur oil meeting this definition and/or pipeline quality natural gas was combusted in the affected facility during the reporting period; or
- (2) The owner or operator of an affected facility who elects to demonstrate compliance based on fuel analysis in §60.42b or §60.43b shall develop and submit a site-specific fuel analysis plan to the Administrator for review and approval no later than 60 days before the date you intend to demonstrate compliance. Each fuel analysis plan shall include a minimum initial requirement of weekly testing and each analysis report shall contain, at a minimum, the following information:
- (i) The potential sulfur emissions rate of the representative fuel mixture in ng/J heat input;
- (ii) The method used to determine the potential sulfur emissions rate of each constituent of the mixture. For distillate oil and natural gas a fuel receipt or tariff sheet is acceptable;
- (iii) The ratio of different fuels in the mixture; and

(iv) The owner or operator can petition the Administrator to approve monthly or quarterly sampling in place of weekly sampling.

## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

### PART 70 OPERATING PERMIT CERTIFICATION

Source Name: Indiana University  
Source Address: 820 North Walnut Grove, Bloomington, Indiana 47405-2206  
Mailing Address: 1514 East 3<sup>rd</sup> Street, Bloomington, Indiana 47405-2206  
Part 70 Permit No.: T105-6642-00005

**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:

- 9 Annual Compliance Certification Letter
- 9 Test Result (specify)
- 9 Report (specify)
- 9 Notification (specify)
- 9 Affidavit (specify)
- 9 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 DATA SECTION**

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

Source Name: Indiana University  
Source Address: 820 North Walnut Grove, Bloomington, Indiana 47405-2206  
Mailing Address: 1514 East 3<sup>rd</sup> Street, Bloomington, Indiana 47405-2206  
Part 70 Permit No.: T105-6642-00005

9	Natural Gas Only	
9	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 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: Indiana University  
Source Address: 820 North Walnut Grove, Bloomington, Indiana 47405-2206  
Mailing Address: 1514 East 3<sup>rd</sup> Street, Bloomington, Indiana 47405-2206  
Part 70 Permit No.: T105-6642-00005

**This form consists of 2 pages**

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- |  |
|--|
| <p>9 This is an emergency as defined in 326 IAC 2-7-1(12)</p> <ul style="list-style-type: none"><li>X 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</li><li>X 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.</li></ul> |
|--|

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 Quarterly Report for Boilers EU-03 and EU-04

Source Name: Indiana University  
 Source Address: 820 North Walnut Grove, Bloomington, Indiana 47405-2206  
 Mailing Address: 1514 East 3<sup>rd</sup> Street, Bloomington, Indiana 47405-2206  
 Permit No.: T105-6642-00005, and EQ 105-8180-00005  
 Facility: Boilers EU-03 and EU-04  
 Parameter: Heat input from all fuels used  
 Limit: 100 MMBtu per hour heat input to each boiler

QUARTER/YEAR: \_\_\_\_\_ MONTH: \_\_\_\_\_

Fuel Type	Amount of fuel burned this month	High heat value of fuel burned this month	Total heat input from fuel this month (MMBtu/mo)	Hours of boiler operation this month (hrs/mo)	Average monthly heat input from fuel this month (MMBtu/hr)
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**Boiler EU-03**

coal	_____ tons/mo	_____ MMBtu/ton			
natural gas	_____ MMCF/mo	1050 MMBtu/MMCF			
fuel oil	_____ gals/mo	0.139 MMBtu/gal			

**Average monthly heat input from all fuels this month (MMBtu/hr)**

**Boiler EU-04**

coal	_____ tons/mo	_____ MMBtu/ton			
natural gas	_____ MMCF/mo	1050 MMBtu/MMCF			
fuel oil	_____ gals/mo	0.139 MMBtu/gal			

**Average monthly heat input from all fuels this month (MMBtu/hr)**

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

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

Attach a signed certification to complete this report.

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

**Part 70 Quarterly Report for Boiler EU-05**

Source Name: Indiana University  
 Source Address: 820 North Walnut Grove, Bloomington, Indiana 47405-2206  
 Mailing Address: 1514 East 3<sup>rd</sup> Street, Bloomington, Indiana 47405-2206  
 Part 70 Permit No.: T105-6642-00005  
 Facility: Boiler EU-05  
 Parameters: natural gas usage  
 Limits: less than 870 MMCF per twelve consecutive month period

For purposes of determining compliance, every 3.84 kilo-gallons of No.1 or No.2 fuel oil combusted shall be equivalent to 1 MMCF of natural gas based on NOx emissions and 0.08% sulfur content of No.1 fuel oil and 0.49% sulfur content of No.2 fuel oil. The amount of natural gas and natural gas equivalents used shall be determined as follows:

Amount of natural gas and natural gas equivalents used = ((EU-05 No.1 fuel oil usage in kgal/yr)/(3.84 kgal/MMCF)) + ((EU-05 No.2 fuel oil usage in kgal/yr)/ (3.84 kgal/MMCF)) + (EU-05 natural gas usage in MMCF/yr)

**QUARTER:** \_\_\_\_\_ **YEAR:** \_\_\_\_\_

				Column 1	Column 2	Column 1 + Column 2
				This Month	Previous 11 Months	12 Month Total
Month	<b>A</b> No.1 Oil Usage per month (kgals)	<b>B</b> No.2 Oil Usage per month (kgals)	<b>C</b> Nat. Gas Usage per month (MMCF)	<b>NOx</b> (A/3.84)+(B/3.84)+C	<b>NOx</b>	<b>NOx</b>

9 No deviation occurred in this quarter.

9 Deviation(s) occurred in this quarter.

Deviation has been reported on:

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

Attach a signed certification to complete this report.

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

**Part 70 Quarterly Report for Boiler EU-05**

Source Name: Indiana University  
 Source Address: 820 North Walnut Grove, Bloomington, Indiana 47405-2206  
 Mailing Address: 1514 East 3<sup>rd</sup> Street, Bloomington, Indiana 47405-2206  
 Part 70 Permit No.: T105-6642-00005  
 Facility: Boiler EU-05  
 Parameters: No. 2 fuel oil usage  
 Limits: less than 1,120 kgals per twelve consecutive month period

For purposes of determining compliance, every kilo-gallon of No.1 fuel oil combusted shall be equivalent to 5.89 kgal of No. 2 fuel oil based on SO2 emissions and 0.08% sulfur content of No. 1 fuel oil and 0.49% sulfur content of No. 2 fuel oil, and every MMCF of natural gas burned shall be equivalent to 0.009 kgal of No. 2 fuel oil based on SO2 emissions and 0.49% sulfur content of No. 2 fuel oil. The amount of No. 2 fuel oil and No. 2 fuel oil equivalents used shall be determined as follows:

Amount of No. 2 fuel oil and No. 2 fuel oil equivalents used = (EU-05 No.1 fuel oil usage in kgal/yr \* 5.89 kgal of No. 2 fuel oil/kgal of No. 1 fuel oil) + (EU-05 No.2 fuel oil usage in kgal/yr) + (EU-05 natural gas usage in MMCF/yr \* 0.009 kgal No. 2 fuel oil/MMCF natural gas)

QUARTER: \_\_\_\_\_ YEAR: \_\_\_\_\_

				Column 1	Column 2	Column 1 + Column 2
				This Month	Previous 11 Months	12 Month Total
Month	A No.1 Oil Usage per month (kgals)	B No.2 Oil Usage per month (kgals)	C Nat. Gas Usage per month (MMCF)	SO2 (A * 5.89) +B + (C * 0.009)	SO2	SO2

9 No deviation occurred in this quarter.

9 Deviation(s) occurred in this quarter.

Deviation has been reported on:

Submitted by: \_\_\_\_\_

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

Signature: \_\_\_\_\_

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

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

Attach a signed certification to complete this report.

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

### Part 70 Quarterly Report for Boiler EU-06

Source Name: Indiana University  
 Source Address: 820 North Walnut Grove, Bloomington, Indiana 47405-2206  
 Mailing Address: 1514 East 3<sup>rd</sup> Street, Bloomington, Indiana 47405-2206  
 Part 70 Permit No.: T105-6642-00005  
 Facility: Boiler EU-06  
 Parameters: SO<sub>2</sub> emissions, coal usage & analysis  
 Limits: SO<sub>2</sub> emissions shall not exceed 6.0 pounds per million Btu when combusting coal, and when coal and fuel oil are used simultaneously; and SO<sub>2</sub> emissions shall not exceed 0.5 pounds per million Btu when combusting fuel oil

QUARTER: \_\_\_\_\_ YEAR: \_\_\_\_\_

Month	Coal Usage (tons)	Fuel Oil Usage (gallons)	Monthly Average Heat Content (MMBtu/lb)		Monthly Average Sulfur Content (%)		SO <sub>2</sub> Emission Rate (lbs/MMBtu)	
			coal	oil	coal	oil	coal	oil
# of Deviations								

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

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

Attach a signed certification to complete this report.

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

**PART 70 Quarterly Report**

Source Name: Indiana University  
Source Address: 820 North Walnut Grove, Bloomington, Indiana 47405-2206  
Mailing Address: 1514 East 3<sup>rd</sup> Street, Bloomington, Indiana 47405-2206  
Part 70 Permit No.: T105-6642-00005  
Facility: Boiler EU07  
Parameter: No. 2 fuel oil  
Limit: 329,000 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER: \_\_\_\_\_ YEAR: \_\_\_\_\_

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

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

Attach a signed certification to complete this report.

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

**PART 70 Quarterly Report**

Source Name: Indiana University  
Source Address: 820 North Walnut Grove, Bloomington, Indiana 47405-2206  
Mailing Address: 1514 East 3<sup>rd</sup> Street, Bloomington, Indiana 47405-2206  
Part 70 Permit No.: T105-6642-00005  
Facility: Emergency Generator MSB 1  
Parameter: Operating Hours  
Limit: Less than 250 hours per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER: \_\_\_\_\_ YEAR: \_\_\_\_\_

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

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

Attach a 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: Indiana University  
Source Address: 820 North Walnut Grove, Bloomington, Indiana 47405-2206  
Mailing Address: 1514 East 3<sup>rd</sup> Street, Bloomington, Indiana 47405-2206  
Part 70 Permit No.: T105-6642-00005

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

Page 1 of 2

This report shall be submitted quarterly based on a calendar year. For the purpose of this permit, a calendar year@ means the twelve (12) month period from January 1 to December 31 inclusive. 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 aNo deviations occurred this reporting period@.

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

9 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 (TSD) for a Part 70 Significant Source Modification and a Significant Permit Modification

### Source Background and Description

Source Name:	Indiana University
Source Location:	820 North Walnut Grove, Bloomington, Indiana 47405-2206
County:	Monroe
SIC Code:	8221
Operating Permit No.:	105-6642-00005
Operating Permit Issuance Date:	June 29, 2004
Significant Source Modification No.:	105-24626-00005
Significant Permit Modification No.:	105-24777-00009
Permit Reviewer:	ERG/MP

On October 10, 2007, the Office of Air Quality (OAQ) had a notice published in The Herald Times newspaper in Bloomington, Indiana, stating that Indiana University had applied for a Significant Source Modification and Significant Permit Modification to construct and operate a new natural-gas fired boiler and an oil fired emergency generator. 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 October 29, 2007, Joe Rubino submitted comments on behalf of Indiana University on the proposed Significant Source Modification and Significant Permit Modification. The summary of the comments is as follows. New language is shown in bold and deleted language is shown in strikethrough. The Table of Contents has been updated as necessary.

### Comment 1:

Indiana University requested the emission limits on the new boiler and new emergency generator be revised to remove the natural gas limit on the boiler, to lower the fuel oil limit on the boiler from 4,929,380 gallons per year to 329,000 gallons per year, and to lower the operating limit on the emergency generator from 500 hours per year to 250 hours per year. Also, Indiana University noted that in the final paragraph of Section D.1.2, reference is made to emergency generator "MSB". The correct name is emergency generator "MSB 1".

### Response to Comment 1:

The draft permit currently contains limits on the new emission units to make 326 IAC 2-2 (PSD) not applicable to the proposed project. As shown below, under the revised limitations proposed by Indiana University, this project will still remain minor under PSD (see TSD Addendum Appendix A for calculations). In addition, because of the lower limits, no fuel equivalency calculations or limitations are needed.

Process/Emission Unit	Potential to Emit After Issuance (tons/year)						
	PM	PM10	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	Lead
EU-07	2.10	7.62	3.14	5.16	79.10	36.27	0.00308
Emergency Generator	0.11	0.11	0.60	0.11	0.83	3.60	--
Total Project	2.20	7.73	3.74	5.26	79.92	39.87	0.00308
Significant Level	25	15	40	40	100	40	0.6

The following changes were made to the permit as the result of this comment (affected conditions have been re-numbered accordingly).

**D.1.2 PSD Minor Limit [326 IAC 2-2]**

In order to render 326 IAC 2-2 not applicable, Boiler EU-07 shall be limited as follows:

- (a) **No. 2 Fuel Oil Usage Limit**  
 The input of No. 2 fuel oil and No. 2 fuel oil equivalents to the new boiler shall be limited to less than ~~4,929,830~~ **329,000** gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- ~~(b) Natural Gas Usage Limit~~  
~~The input of natural gas and natural gas equivalents to boiler EU-07 shall be limited to 1,785 MMCF per twelve (12) consecutive month period with compliance determined at the end of each month.~~
- (eb) **SO<sub>2</sub>**
  - (i) The sulfur content in the No. 2 fuel oil used in Boiler EU-07 shall not exceed 0.1 percent.
  - ~~(ii) For the purposes of determining compliance, every MMcf of natural gas burned shall be equivalent to 38.3 gallons of No. 2 fuel oil based on SO<sub>2</sub> emissions, such that the total gallons of No. 2 fuel oil and No. 2 fuel oil equivalent input does not exceed the limit specified.~~
- (ec) The emissions of PM10 while burning No. 2 fuel oil shall not exceed 3.3 pounds per 1,000 gallons of No. 2 fuel oil burned.
- (ed) **NO<sub>x</sub>**
  - (i) The emissions of NO<sub>x</sub> while burning natural gas shall not exceed 36.72 lb/MMcf. The emissions of NO<sub>x</sub> while burning No. 2 fuel oil shall not exceed 12.51 lb/Kgal.
  - ~~(ii) For the purposes of determining compliance, every 1,000 gallons of No. 2 oil shall be equivalent to 0.3407 MMcf of natural gas based on NO<sub>x</sub> emissions, such that the total MMcf of natural gas and natural gas equivalent input does not exceed the limit specified.~~

Compliance with these limits combined with the potential emissions of emergency generator MSB 1 will limit SO<sub>2</sub> emissions to less than 40 tons per year, PM10 emissions to less than 15 tons per year, and NO<sub>x</sub> emissions to less than 40 tons per year from the modification permitted under SSM 105-24626-00005 and will render the requirements of 326 IAC 2-2 (PSD) not applicable for SO<sub>2</sub>, PM10, and NO<sub>x</sub>.

#### D.1.8 Record Keeping Requirements

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...

(b) To document compliance with Conditions D.1.2, D.1.3, and D.1.5, the Permittee shall maintain records in accordance with (1) through (7) below.

(1) Calendar dates covered in the compliance determination period;

(2) ~~Actual No. 2 fuel oil and No. 2 fuel oil equivalent~~ usage and natural gas ~~and natural gas equivalent~~ usage since last compliance determination period and ~~equivalent~~ NOx and SO2 emissions.

...

#### D.5.1 PSD Minor Limits [326 IAC 2-2]

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In order to render 326 IAC 2-2 not applicable, emergency generator MSB 1 shall be limited as follows:

The operating hours for the emergency generator MSB 1 shall not exceed 250 hours per twelve (12) consecutive month period with compliance determined at the end of each month.

Compliance with these limits combined with the potential emissions of boiler EU-07 will limit SO2 emissions to less than 40 tons per year, PM10 emissions to less than 15 tons per year, and NOx emissions to less than 40 tons per year from the modification permitted under SSM 105-24626-00005 and will render the requirements of 326 IAC 2-2 (PSD) not applicable for SO2, PM10, and NOx.

...

#### Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

#### D.5.6 Record Keeping Requirements

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To document compliance with Condition D.5.1, the Permittee shall maintain monthly records of the operating hours for the emergency generator MSB 1.

#### D.5.7 Reporting Requirements

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A quarterly summary of the information to document compliance with Condition D.5.1 shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

### PART 70 Quarterly Report

Source Name:	Indiana University
Source Address:	820 North Walnut Grove, Bloomington, Indiana 47405-2206
Mailing Address:	1514 East 3 <sup>rd</sup> Street, Bloomington, Indiana 47405-2206
Part 70 Permit No.:	T105-6642-00005
Facility:	Boiler EU07
Parameter:	No. 2 fuel oil <del>and No. 2 fuel oil equivalents</del>
Limit:	<del>4,929,830</del> <b>329,000</b> gallons per twelve (12) consecutive month period, with compliance determined at the end of each month. <del>For the purposes of determining compliance, every MMcf of natural gas burned shall be equivalent to 38.3 gallons of No. 2 fuel oil based on SO<sub>2</sub> emissions, such that the total gallons</del>

~~of No. 2 fuel oil and No. 2 fuel oil equivalent input does not exceed the limit specified.~~

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

**PART 70 Quarterly Report**

Source Name: \_\_\_\_\_ Indiana University  
Source Address: \_\_\_\_\_ 820 North Walnut Grove, Bloomington, Indiana 47405-2206  
Mailing Address: \_\_\_\_\_ 1514 East 3<sup>rd</sup> Street, Bloomington, Indiana 47405-2206  
Part 70 Permit No.: \_\_\_\_\_ T105-6642-00005  
Facility: \_\_\_\_\_ Boiler EU07  
Parameter: \_\_\_\_\_ Natural Gas and Natural Gas equivalents  
Limit: \_\_\_\_\_ 1,785 MMCF per twelve (12) consecutive month period with compliance determined at the end of each month. For the purposes of determining compliance, every 1,000 gallons of No. 2 fuel oil burned shall be equivalent to 0.3407 MMcf of natural gas based on NOx emissions, such that the total MMcf of natural gas and natural gas equivalent input does not exceed the limit specified.

**Source Name: Indiana University**  
**Source Address: 820 North Walnut Grove, Bloomington, Indiana 47405-2206**  
**Mailing Address: 1514 East 3<sup>rd</sup> Street, Bloomington, Indiana 47405-2206**  
**Part 70 Permit No.: T105-6642-00005**  
**Facility: Emergency Generator MSB 1**  
**Parameter: Operating Hours**  
**Limit: Less than 250 hours per twelve (12) consecutive month period with compliance determined at the end of each month.**

**Comment 2:**

Indiana University requested that the turnaround time in Condition C.12(c) be changed from 4 hours to 24 hours to provide sufficient time for CEMS troubleshooting and repair. Indiana University states that this change would be consistent with the COMS requirements in Section C.11 and that during the first 24 hours, the University could troubleshoot the problem, determine if normal replacement parts kept onsite could be used and complete a non-complicated repair. Indiana University indicated it would not be possible to troubleshoot, obtain a replacement instrument and have it installed in a 4-hour period and while a 24-hour period is still very tight, arrangements could at least be made in that timeframe for a CEMS service technician to come to the site, troubleshoot, and possibly replace the existing equipment. Indiana University also stated that it is also economically infeasible for the University to purchase and have available a backup CEMS unit.

**Response to Comment 2:**

The NOx CEMS at this source is required under 40 CFR Part 60, Subpart Db. Pursuant to 60.48b(f), "When NOx emission data are not obtained because of CEMS breakdowns, repairs, calibration checks and zero and span adjustments, standby monitoring systems, Method 7, Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days." As the NSPS contains provisions addressing how compliance should be determined during periods of CEMS breakdown, IDEM has deleted Condition C.12(c) from the permit. The following changes were made to the permit as the result of this comment:

C.12 Maintenance of Continuous Emission Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

---

- (a) The Permittee shall install, calibrate, maintain, and operate all necessary continuous emission monitoring systems (CEMS) and related equipment.
- (b) In the event that a breakdown of a continuous emission monitoring system occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.
- ~~(c) Whenever a continuous emission monitor other than an opacity monitor is malfunctioning or will be down for calibration, maintenance, or repairs for a period of four (4) hours or more, a calibrated backup CEMS shall be brought online within four (4) hours of shutdown of the primary CEMS, and shall be operated until such time as the primary CEMS is back in operation.~~
- (dc) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to 40 CFR 60 and/or 63.

**Comment 3:**

Indiana University notes that the formulas in Condition D.2.6(a), D.2.6(b), and the Quarterly Report on Page 61 are incorrectly formatted and use a “)” instead of a “/” to represent the division sign.

**Response to Comment 3:**

IDEM agrees that the formula, as written, is confusing. In addition, IDEM has determined to revise the structure of the limit such that there are separate natural gas and fuel oil limits. The permit has been revised as follows:

D.2.6 Fuel Usage Equivalency Limits

---

- (a) The **total** input of natural gas to boiler EU-05 shall be **less than** limited in total to 870 MMCF per twelve **consecutive** month period, rolled on a monthly basis. For purposes of determining compliance, every 3.84 kilo-gallons of No.1 or No.2 fuel oil combusted shall be equivalent to 1 MMCF of natural gas based on NOx emissions and 0.08% sulfur content of No.1 fuel oil and 0.49% sulfur content of No.2 fuel oil. **The amount of natural gas and natural gas equivalents used shall be determined as follows:** ~~such that the total MMCF of natural gas and natural gas equivalents input does not exceed 870 MMCF of natural gas per year;~~

**Amount of natural gas and natural gas equivalents used = ((EU-05 No.1 fuel oil usage in kgal/yr)/(3.84 kgal/MMCF)) + ((EU-05 No.2 fuel oil usage in kgal/yr)/(3.84 kgal/MMCF)) + (EU-05 natural gas usage in MMCF/yr) < 870 MMCF/year**

- (b) The **total** input of **No. 2** fuel oil to boiler EU-05 shall be limited in total to the equivalent of ~~133,333.33 MMCF of natural gas~~ **less than 1,120 kgals** per twelve **consecutive** month period, rolled on a monthly basis. For purposes of determining compliance, every ~~0.053~~ kilo-gallons of No.1 fuel oil combusted shall be equivalent to **5.89 kgal of No. 2 fuel oil** ~~4 MMCF of natural gas~~ based on SO2 emissions and 0.08% sulfur content of **No. 1 fuel oil** and **0.49% sulfur content of No. 2 fuel oil**, and every ~~0.009~~ kgals of No.2 fuel oil burned shall be equivalent to 1 MMCF of natural gas **burned shall be equivalent to 0.009 kgal of No. 2 fuel oil** based on SO2 emissions and 0.49% sulfur content of **No. 2 fuel oil**. **The amount of No. 2 fuel oil and No. 2 fuel oil equivalents used shall be determined as follows:** ~~such that the total MMCF of natural gas and natural gas equivalents input does not exceed 133,333.33 MMCF of natural gas per year;~~

**Amount of No. 2 fuel oil and No. 2 fuel oil equivalents used = (EU-05 No.1 fuel oil usage in kgal/yr \* 5.89 kgal of No. 2 fuel oil/kgal of No. 1 fuel oil) + (0.053 kgal/MMCF) +**

$$(EU-05 \text{ No.2 fuel oil usage in kgal/yr})0.009 \text{ kgal/MMCF} + (EU-05 \text{ natural gas usage in MMCF/yr} * 0.009 \text{ kgal No. 2 fuel oil/MMCF natural gas}) < 133,333.33 \text{ MMCF/year}$$

The fuel usage from boiler EU-05 shall be limited as required **Compliance with the above limits** so the potential to emit of NOx and SO<sub>2</sub>, regulated pollutants under the Prevention of Significant Deterioration (PSD) rule 326 IAC 2-2, would not exceed **to less than 40 tons per year, or the significant level for those particular pollutants. twelve consecutive month period with compliance determined at the end of each month and renders 326 IAC 2-2 not applicable.**

...

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

**Part 70 Quarterly Report for Boiler EU-05**

Source Name: Indiana University  
 Source Address: 820 North Walnut Grove, Bloomington, Indiana 47405-2206  
 Mailing Address: 1514 East 3<sup>rd</sup> Street, Bloomington, Indiana 47405-2206  
 Part 70 Permit No.: T105-6642-00005  
 Facility: Boiler EU-05  
 Parameters: ~~fuel oil usage & analysis,~~ natural gas usage  
 Limits: **less than 870 MMCF per twelve consecutive month period**

**For purposes of determining compliance, every 3.84 kilo-gallons of No.1 or No.2 fuel oil combusted shall be equivalent to 1 MMCF of natural gas based on NOx emissions and 0.08% sulfur content of No.1 fuel oil and 0.49% sulfur content of No.2 fuel oil. The amount of natural gas and natural gas equivalents used shall be determined as follows:**

$$\text{Amount of natural gas and natural gas equivalents used} = ((EU-05 \text{ No.1 fuel oil usage in kgal/yr})/(3.84 \text{ kgal/MMCF})) + ((EU-05 \text{ No.2 fuel oil usage in kgal/yr})/(3.84 \text{ kgal/MMCF})) + (EU-05 \text{ natural gas usage in MMCF/yr})$$

Fuel equivalencies for NOx emissions ~~every 3.84 kgals of No.1 or No.2 fuel oil combusted shall each be equivalent to 1 MMCF of natural gas;~~ (EU-05 No.1 fuel oil usage in kgal/yr)/3.84 kgal/MMCF) + (EU-05 No.2 fuel oil usage in kgal/yr)/3.84 kgal/MMCF) + (EU-05 natural gas usage in MMCF/yr) < 870 MMCF/year

Fuel equivalencies for SO<sub>2</sub> emissions ~~every 0.053 kgals of No.1 fuel oil burned shall be equivalent to 1 MMCF of natural gas, and every 0.009 kgals of No.2 fuel oil combusted shall be equivalent to 1 MMCF of natural gas;~~ (EU-05 No.1 fuel oil usage in kgal/yr)/0.053 kgal/MMCF) + (EU-05 No.2 fuel oil usage in kgal/yr)/0.009 kgal/MMCF) + (EU-05 natural gas usage in MMCF/yr) < 133,333.33 MMCF/year

**QUARTER: \_\_\_\_\_ YEAR: \_\_\_\_\_**

				Column 1	Column 2	Column 1 + Column 2
				This Month	Previous 11 Months	12 Month Total
Month	A No.1 Oil Usage per month (kgals)	B No.2 Oil Usage per month (kgals)	C Nat. Gas Usage per month (MMCF)	NOx (A/3.84)+(B/3.84)+C < 870 MMCF/yr	NOx	NOx


				$\text{SO}_2$ $(A/0.053)+(B/0.009)+C$ $< 133,333.33 \text{ MMCF/yr}$	$\text{SO}_2$	$\text{SO}_2$
			# of Deviations			

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

**Part 70 Quarterly Report for Boiler EU-05**

**Source Name:** Indiana University  
**Source Address:** 820 North Walnut Grove, Bloomington, Indiana 47405-2206  
**Mailing Address:** 1514 East 3<sup>rd</sup> Street, Bloomington, Indiana 47405-2206  
**Part 70 Permit No.:** T105-6642-00005  
**Facility:** Boiler EU-05  
**Parameters:** No. 2 fuel oil usage  
**Limits:** less than 1,120 kgals per twelve consecutive month period

For purposes of determining compliance, every kilo-gallon of No.1 fuel oil combusted shall be equivalent to 5.89 kgal of No. 2 fuel oil based on SO<sub>2</sub> emissions and 0.08% sulfur content of No. 1 fuel oil and 0.49% sulfur content of No. 2 fuel oil, and every MMCF of natural gas burned shall be equivalent to 0.009 kgal of No. 2 fuel oil based on SO<sub>2</sub> emissions and 0.49% sulfur content of No. 2 fuel oil. The amount of No. 2 fuel oil and No. 2 fuel oil equivalents used shall be determined as follows:

Amount of No. 2 fuel oil and No. 2 fuel oil equivalents used = (EU-05 No.1 fuel oil usage in kgal/yr \* 5.89 kgal of No. 2 fuel oil/kgal of No. 1 fuel oil) + (EU-05 No.2 fuel oil usage in kgal/yr) + (EU-05 natural gas usage in MMCF/yr \* 0.009 kgal No. 2 fuel oil/MMCF natural gas)

**QUARTER:** \_\_\_\_\_ **YEAR:** \_\_\_\_\_

				Column 1	Column 2	Column 1 + Column 2
				This Month	Previous 11 Months	12 Month Total
Month	A No.1 Oil Usage per month (kgals)	B No.2 Oil Usage per month (kgals)	C Nat. Gas Usage per month (MMCF)	SO <sub>2</sub> (A * 5.89) + B + (C * 0.009)	SO <sub>2</sub>	SO <sub>2</sub>

--	--	--	--	--	--	--

9      **No deviation occurred in this quarter.**

9      **Deviation(s) occurred in this quarter.**

**Deviation has been reported on:**

**Submitted by:** \_\_\_\_\_

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

**Signature:** \_\_\_\_\_

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

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

**Attach a signed certification to complete this report.**

**Comment 4:**

Indiana University indicated that they understand the IDEM, OAQ has a concern with the schedule for construction permit issuance if it was to try and reconcile this permit with the current Stay Agreement. Also, Indiana University notes that the legal branch of IDEM has not initiated resolution of the current appeal. Therefore Indiana University has accepted the current permit language where it differs from the Stay Agreement in Sections B, C and D, but as a matter of record, Indiana University requests incorporation of the Stay Agreement language into this permit modification, where appropriate.

**Response to Comment 4:**

IDEM, OAQ acknowledges that Indiana University has requested incorporation of the current Stay Agreement into this permit. However, until such time that the current appeal is fully resolved, IDEM, OAQ will not update the permit to reflect the Stay Agreement.

**TSD Addendum Appendix A: Emission Calculations**  
**Fuel Oil Combustion**

**Company Name:** Indiana University  
**Address:** 820 North Walnut Grove, Bloomington, IN 47405-2206  
**Title V SSM:** 105-24626-00005  
**Title V SPM:** 105-24777-00005  
**Plant ID:** 105-00005  
**Reviewer:** ERG/MP  
**Date:** November 12, 2007

**No. 2 Fuel Oil Combustion**

Heat Input Capacity MMBtu/hour
208.0

Potential Throughput Kgal/year
13,108

**Pollutant**

Emission Factor	* PM 2 (lb/Kgal)	* PM10 3.3 (lb/Kgal)	SO <sub>2</sub> ** 157S (lb/Kgal)	*** NO <sub>x</sub> 0.090 (lb/MMBtu)	VOC 0.2 (lb/Kgal)	CO 5 (lb/Kgal)
Potential To Emit (tons/year)	13.11	21.63	102.90	81.99	1.31	32.77

**HAPs - Organics**

Fuel Oil Emission Factor (lb/Kgal)	Benzene 2.1E-04	Dichlorobenzene --	Formaldehyde 3.3E-02	Hexane --	Toluene 6.2E-03	Combined Organic HAP
Fuel Oil Potential To Emit (tons/year)	1.40E-03	--	2.2E-01	--	4.06E-02	2.58E-01

**HAPs - Metals**

Fuel Oil Emission Factor (lb/MMBtu)	Lead 9.0E-06	Cadmium 3.0E-06	Chromium 3.0E-06	Manganese 6.0E-06	Nickel 3.0E-06	Combined Metal HAP
Fuel Oil Potential To Emit (tons/year)	8.20E-03	2.73E-03	2.73E-03	5.47E-03	2.73E-03	2.19E-02

Heat Input Capacity for fuel oil combustion is from application.

\*PM10 emission factor is filterable and condensible particulate combined. PM emission factor is just filterable particulate.

\*\*SO<sub>2</sub> emission factor based on a sulfur limit of 0.1%.

\*\*\*Emission factor for NO<sub>x</sub>: Based on performance guarantees from Nebraska Boiler the manufacturer of the boiler.

All other Emission factors are from AP-42:

No. 2 fuel oil: Chapter 1.3, Tables 1.3-1, 1.3-2, and 1.3-6, SCC# 1-01-005-01, 1-02-005-01, and 1-03-005-01 (September, 1998)

KGAL = 1,000 Gallons of No. 2 Fuel Oil

MMBtu = 1,000,000 Btu

**METHODOLOGY**

Potential Throughput (Kgal/yr) = 8760 hr/yr \* 208 MMBtu/hr \* 1 Kgal/139 MMBtu

Potential To Emit (tons/year) = Heat Input Capacity (MMBtu/hr) \* 8760 (hr/yr) \* Emission Factor (lb/MMBtu) \* 1 ton/2000 lbs

Potential to Emit (tons/year) = Potential Throughput (Kgal/yr) \* Emission Factor (lb/KGal) \* 1 ton/2000 lbs

**TSD Addendum Appendix A: Emission Calculations**  
**Natural Gas Combustion**

**Company Name:** Indiana University  
**Address:** 820 North Walnut Grove, Bloomington, IN 47405-2206  
**Title V SSM:** 105-24626-00005  
**Title V SPM:** 105-24777-00005  
**Plant ID:** 105-00005  
**Reviewer:** ERG/MP  
**Date:** November 12, 2007

**Natural Gas Combustion**

Heat Input Capacity MMBtu/hour 217.0	Potential Throughput MMCF/year 1,864
--	--

**Pollutant**

Emission Factor	* PM 1.9 (lb/MMCF)	* PM10 7.6 (lb/MMCF)	SO <sub>2</sub> 0.6 (lb/MMCF)	** NO <sub>x</sub> 0.036 (lb/MMBtu)	VOC 5.5 (lb/MMCF)	CO 84 (lb/MMCF)
Potential To Emit (tons/year)	1.77	7.08	0.56	34.22	5.13	78.27

**HAPs - Organics**

Natural Gas Emission Factor (lb/MMCF)	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03	Combined Organic HAP
Natural Gas Potential To Emit (tons/year)	1.96E-03	1.12E-03	6.99E-02	1.68E+00	3.17E-03	1.75E+00

**HAPs - Metals**

Emission Factor (lb/MMCF)	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03	Combined Metal HAP
Potential To Emit (tons/year)	4.66E-04	1.03E-03	1.30E-03	3.54E-04	1.96E-03	5.11E-03

Heat Input Capacity for natural gas combustion is from application.

\*PM and PM10 emission factors are filterable and condensable PM and PM10 combined.

\*\*Emission factor for NO<sub>x</sub>: Based on performance guarantees from Nebraska Boiler the manufacturer of the boiler.

All other Emission factors are from AP-42:

Natural gas: 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 (July, 1998).

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

**Natural Gas Combustion**

Potential Throughput (MMCF/yr) = Heat Input Capacity (MMBtu/hr) \* 8760 (hr/yr) \* 1 MMCF/1,020 MMBTU

Potential To Emit (tons/year) = Heat Input Capacity (MMBtu/hr) \* 8760 (hr/yr) \* Emission Factor (lb/MMBtu) \* 1 ton/2000 lbs

Potential to Emit (tons/year) = Potential Throughput (MMCF/yr) \* Emission Factor (lb/MMCF) \* 1 ton/2000 lbs

**TSD Addendum Appendix A: Emission Calculations  
Combined Fuel Oil and Natural Gas Combustion - Limited**

**Company Name:** Indiana University  
**Address:** 820 North Walnut Grove, Bloomington, IN 47405-2206  
**Title V SSM:** 105-24626-00005  
**Title V SPM:** 105-24777-00005  
**Plant ID:** 105-00005  
**Reviewer:** ERG/MP  
**Date:** November 12, 2007

**1 Natural Gas PTE**

Heat Input Capacity MMBtu/hour
217.0

Potential Throughput MMCF/year
1,864

**Pollutant**

Emission Factor (lb/MMCF)	* PM 1.9 (lb/MMCF)	* PM10 7.6 (lb/MMCF)	SO <sub>2</sub> 0.6 (lb/MMCF)	** NO <sub>x</sub> 0.036 (lb/MMBtu)	VOC 5.5 (lb/MMCF)	CO 84 (lb/MMCF)
Potential To Emit (tons/year)	1.77	7.08	0.56	34.22	5.13	78.27

**2 No. 2 Fuel Oil Limited PTE**

Heat Input Capacity MMBtu/hour
208.0

Potential Throughput Kgal/year
13,108

Limited Throughput Kgal/year
329

**Pollutant**

Emission Factor (lb/MMCF)	* PM 2 (lb/Kgal)	* PM10 3.3 (lb/Kgal)	** SO <sub>2</sub> 157S (lb/Kgal)	*** NO <sub>x</sub> 0.090 (lb/MMBtu)	VOC 0.2 (lb/Kgal)	**CO 5 (lb/KGal)
Limited Potential To Emit (tons/year)	0.33	0.54	2.58	2.06	0.03	0.82

**3 Total Limited PTE**

Limited Potential To Emit (tons/year)	2.10	7.62	3.14	36.27	5.16	79.10
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Heat Input Capacity for natural gas and fuel oil combustion is from application.

\*PM and PM10 emission factors are filterable and condensable PM and PM10 combined.

\*\*SO<sub>2</sub> emission factor based on a sulfur limit of 0.1%.

\*\*\*Emission factors for NO<sub>x</sub>: Based on performance guarantees from Nebraska Boiler the manufacturer of the boiler.

All other Emission factors are from AP-42:

Natural gas: 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 (July, 1998).

No. 2 fuel oil: Chapter 1.3, Tables 1.3-1, 1.3-2, and 1.3-6, SCC# 1-01-005-01, 1-02-005-01, and 1-03-005-01 (September, 1998)

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

MGAL = 1,000 Gallons of No. 2 Fuel Oil

**METHODOLOGY**

**Natural Gas Combustion**

Potential Throughput (MMCF/yr) = Heat Input Capacity (MMBtu/hr) \* 8760 (hr/yr) \* 1 MMCF/1,020 MMBTU

**No. 2 Fuel Oil Combustion**

Potential Throughput (Kgal/yr) = Heat Input Capacity (MMBtu/hr) \* 8760 (hr/yr) \* 1 Kgal/139 MMBTU

Limited Potential To Emit (tons/year) = Limited Throughput (Mgal/year) \* Emission Factor (lb/Mgal) \* 1 ton/2000 lbs

**Total Limited PTE**

Limited Potential To Emit (tons/year) = Natural Gas PTE + No. 2 Fuel Oil Limited PTE

**NOTE** Fuel use is limited so that, in combination with Potential Emissions from the emergency generator, total project emissions are less than 40 tons/year.

**TSD Addendum Appendix A: Emission Calculations  
Combined Fuel Oil and Natural Gas Combustion - Limited**

**Company Name:** Indiana University

**Address:** 820 North Walnut Grove, Bloomington, IN 47405-2206

**Title V SSM:** 105-24626-00005

**Title V SPM:** 105-24777-00005

**Plant ID:** 105-00005

**Reviewer:** ERG/MP

**Date:** November 12, 2007

**HAPs - Organics**

Natural Gas Emission Factor (lb/MMCF)	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03	
Natural Gas Potential To Emit (tons/year)	1.96E-03	1.12E-03	6.99E-02	1.68E+00	3.17E-03	
Fuel Oil Emission Factor (lb/Kgal)	Benzene 2.1E-04	Dichlorobenzene --	Formaldehyde 3.3E-02	Hexane --	Toluene 6.2E-03	
Fuel Oil Limited Potential To Emit (tons/year)	3.5E-05	--	5.4E-03	--	1.0E-03	Combined Organic HAP Potential to Emit (tons/year)
Total Potential to Emit (tons/year)	1.99E-03	1.12E-03	7.53E-02	1.68E+00	4.19E-03	<b>1.76E+00</b>

**HAPs - Metals**

Natural Gas Emission Factor (lb/MMCF)	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03	
Natural Gas Potential To Emit (tons/year)	4.53E-04	9.97E-04	1.27E-03	3.44E-04	1.90E-03	
Fuel Oil (lb/MMBtu)	Lead 9.0E-06	Cadmium 3.0E-06	Chromium 3.0E-06	Manganese 6.0E-06	Nickel 3.0E-06	
Fuel Oil Limited Potential To Emit (tons/year)	3.08E-03	1.03E-03	1.03E-03	2.06E-03	1.03E-03	Combined Metal HAP Potential to Emit (tons/year)
Total Potential to Emit (tons/year)	3.08E-03	9.97E-04	1.27E-03	2.06E-03	1.90E-03	<b>9.31E-03</b>

**HAPS from Combustion**

Methodology is the same as previous page.

The HAPs emission factors for Natural Gas provided above are from AP-42, Chapter 1.4, Table 1-4-2, 1.4-3 and 1.4-4 (July, 1998).

Additional Natural Gas HAPs emission factors are available in AP-42, Chapter 1.4.

The No. 2 Fuel Oil HAP emission factors are from AP-42, Chapter 1.3, Table 1.3-9 (September, 1998)

Not all of the compounds with emission factors among the five highest emission factors for NG have emission factors for No.2 Fuel Oil

Because combustion in this boiler will predominantly be of NG, emissions of these five compounds will still be the five largest HAP emissions

**TSD Addendum Appendix A: Emission Calculations**  
**Comparison of AP-42 emission factors for NOx with those provided as guarantees**  
**from the boiler vendor and used in TSD.**

**Company Name:** Indiana University  
**Address:** 820 North Walnut Grove, Bloomington, IN 47405-2206  
**Title V SSM:** 105-24626-00005  
**Title V SPM:** 105-24777-00005  
**Plant ID:** 105-00005  
**Reviewer:** ERG/MP  
**Date:** November 12, 2007

All figures in table expressed as pounds/ MMBtu.

	NOx	
	Natural gas	Fuel oil
AP-42	0.098	0.072
Vendor	0.036	0.09
Difference	-63%	25%

**NOx**

Fuel oil - vendor predicts emissions 25% higher than AP-42  
Natural gas - vendor predicts emissions 63% lower than AP-42

Note: New boiler will be equipped with NOx monitor so testing will not be necessary to verify vendor's guarantee.  
AP-42 numbers for boiler with low NOx burners and FGD.

**TSD Addendum Appendix A: Emission Calculations**  
**Diesel fuel oil fired combustion**  
**>600 HP generator**  
**Emergency Generator MSD 1**

**Company Name:** Indiana University  
**Address:** 820 North Walnut Grove, Bloomington, IN 47405-2206  
**Title V SSM:** 105-24626-00005  
**Title V SPM:** 105-24777-00005  
**Plant ID:** 105-00005  
**Reviewer:** ERG/MP  
**Date:** November 12, 2007

Power Output (HP)	Potential Operating Hours (hrs/yr)	Limited Operating Hours (hrs/yr)	Weight % Sulfur (S)
1200	500	250	0.5

**1. Unlimited PTE**

	Pollutant					
	PM	PM10**	SO2	NOx	VOC	CO
>600 HP Emission Factor in lb/hp-hr*	0.0007	0.0007	0.004 8.09E-03S	0.024	0.000705	0.0055
Potential Emissions (tons/yr)	0.21	0.21	1.20	7.20	0.21	1.65

\* Diesel combustion AP-42 emission factors from AP-42, Section 3.4 (10/1996), Table 3.4-1.  
 \*\* Assume PM10 emissions are equal to PM emissions.

**2. Limited PTE**

	Pollutant					
	PM	PM10**	SO2	NOx	VOC	CO
>600 HP Emission Factor in lb/hp-hr*	0.0007	0.0007	0.004 8.09E-03S	0.024	0.000705	0.0055
Limited Emissions (tons/yr)	0.11	0.11	0.60	3.60	0.11	0.83

\* Diesel combustion AP-42 emission factors from AP-42, Section 3.4 (10/1996), Table 3.4-1.  
 \*\* Assume PM10 emissions are equal to PM emissions.

**Methodology**

Potential Emissions (tons/yr) = Power Output (HP) x Potential Operating Hours (hrs/yr) x Emission Factor (lb/hp-hr) x 1 ton/2000 lb  
 Limited Emissions (tons/yr) = Power Output (HP) x Limited Operating Hours (hrs/yr) x Emission Factor (lb/hp-hr) x 1 ton/2000 lb

**TSD Addendum Appendix A: Emission Calculations  
Summary of Annual Criteria Pollutant Emissions**

**Company Name:** Indiana University  
**Address:** 820 North Walnut Grove, Bloomington, IN 47405-2206  
**Title V SSM:** 105-24626-00005  
**Title V SPM:** 105-24777-00005  
**Plant ID:** 105-00005  
**Reviewer:** ERG/MP  
**Date:** November 12, 2007

**Unrestricted Potential to Emit**

	PM	PM10	SO2	NOx	VOC	CO
EU-07	13.11	21.63	102.90	81.99	5.13	78.27
Emerg. Gen	0.21	0.21	1.20	7.20	0.21	1.65
<b>Total</b>	<b>13.32</b>	<b>21.84</b>	<b>104.10</b>	<b>89.19</b>	<b>5.34</b>	<b>79.92</b>

**Limited PTE**

	PM	PM10	SO2	NOx	VOC	CO
EU-07	2.10	7.62	3.14	36.27	5.16	79.10
Emerg. Gen	0.11	0.11	0.60	3.60	0.11	0.83
<b>Total</b>	<b>2.20</b>	<b>7.73</b>	<b>3.74</b>	<b>39.87</b>	<b>5.26</b>	<b>79.92</b>

All emissions are in tons/year.

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

**Technical Support Document (TSD) for a Part 70  
Significant Source Modification and a Significant Permit Modification**

**Source Description and Location**

Source Name: Indiana University  
Source Location: 820 North Walnut Grove, Bloomington, Indiana 47405-2206  
County: Monroe  
SIC Code: 8221  
Operating Permit No.: 105-6642-00005  
Operating Permit Issuance Date: June 29, 2004  
Significant Source Modification No.: 105-24626-00005  
Significant Permit Modification No.: 105-24777-00009  
Permit Reviewer: ERG/KHB

**Existing Approvals**

The source was issued Part 70 Operating Permit No. T105-6642-00005 on June 29, 2004.

The source has received no subsequent approvals.

**County Attainment Status**

The source is located in Monroe 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

**Note:** 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.

- (a) 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. Monroe 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.
- (b) Monroe County has been classified as attainment for PM<sub>2.5</sub>. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM<sub>2.5</sub> emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for PM<sub>2.5</sub> emissions, it has directed states to regulate PM<sub>10</sub> emissions as a surrogate for PM<sub>2.5</sub> emissions.

- (c) Monroe County has been classified as attainment or unclassifiable for all other pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (d) Since this source is classified as including a combination of fossil fuel boilers totalling more than 250 million Btu/hr heat input, it is considered to be in one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).
- (e) Fugitive Emissions  
 Since this type of operation is in one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are counted toward the determination of PSD and 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:

Pollutant	Emissions (tons/year)
PM	>100
PM10	>100
SO <sub>2</sub>	>100
VOC	<100
CO	>100
NO <sub>x</sub>	>100

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 one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).

These emissions are based upon the TSD for T105- 6642-00005.

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:

HAPs	Potential To Emit (tons/year)
Hydrogen Chloride	120
Hydrogen Fluoride	15
Hexane	3.93
Cyanide	0.25
TOTAL	139

This existing source is a major source of HAPs, as defined in 40 CFR 63.41, because HAP emissions are greater than ten (10) tons per year for a single HAP and greater than twenty-five (25) tons per year for 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)
PM2.5	51
PM10	129
SO <sub>2</sub>	1436
VOC	2
CO	177
NO <sub>x</sub>	388
HAP (lead)	0.11

### Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Indiana University on April 16, 2007, relating to changes to its campus power plant used for heat. The Permittee seeks to remove two older, smaller boilers and replace them with a new larger boiler. Additionally, the stack through which existing boiler No. 5 (ID No. EU-05) exhausts will be changed from 002 to 003. Also, a new 1200 HP emergency generator will be added. The following is a list of the proposed and/or modified emission units and pollution control devices:

Indiana University plans to remove the following boilers:

- (a) Two (2) coal fired boilers, identified as EU-01 and EU-02, both constructed in 1955, each with a maximum design capacity of 100 MMBtu per hour heat input each (operating at a maximum capacity of 80 MMBtu per hour heat input each), and each equipped with a multiclone for particulate control and a portable startup/shutdown natural gas fired burner rated at 4.2 MMBtu per hour heat input each, both exhausting to stack 001.

The new boiler that will be constructed is as follows:

- (b) One (1) natural gas or low-sulfur No. 2 fuel oil fired boiler, identified as EU-07, approved for construction in 2007, with a maximum design capacity of 217 MMBtu per hour when combusting natural gas and 208 MMBtu per hour when combusting fuel oil, and equipped with low NO<sub>x</sub> burners and induced flue gas recirculation for NO<sub>x</sub> control, exhausting to stack 002.

The following unit will be modified to exhaust to stack 003 instead of stack 002:

- (c) One (1) natural gas, No.1 or No.2 fuel oil fired boiler, identified as EU-05, constructed in 1964 and modified in 1989, with a maximum design capacity of 190 MMBtu per hour heat input, equipped with low NO<sub>x</sub> burners (two natural gas fired burners at 75 MMBtu per hour heat input each) for natural gas and/or fuel oil, and a multiclone for particulate control when combusting fuel oil, exhausting to stack 003.

In addition to the changes listed above, the fuel use equivalency limit has been revised for boiler EU-05 to correct an inconsistency with the limit in the original Title V permit.

The following insignificant activity is also being added:

- (d) Oil fired emergency generators not exceeding 1,600 horsepower:
  - (1) One (1) emergency generator at MSB 1 rated at 1200 horsepower.

Because there will be a transition for the changes to the configuration for the existing boiler EU-05, language reflecting both the before and after modification configurations and regulatory requirements will be included in the permit for boiler EU-05.

**Enforcement Issues**

There are no pending enforcement actions related to this modification.

**Stack Summary**

Stack ID	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
002	148	8	43,555	332
003	192	12	31,000	450

**Emission Calculations**

See Appendix A of this document for detailed emission calculations.

**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 following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE of the current project before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

The following table reflects the addition of the new boiler and emergency generator.

Pollutant	Potential To Emit (tons/year)
PM	13.32
PM10	21.84
SO <sub>2</sub>	104.10
VOC	5.34
CO	79.92
NO <sub>x</sub>	89.19

HAPs	Potential To Emit (tons/year)
Hexane	1.68
Formaldehyde	0.22
Toluene	0.041
Lead	0.0082
Manganese	0.0058
TOTAL	1.95

This source modification is subject to 326 IAC 2-7-10.5(f)(4)(C) as this is a modification with the potential to emit greater than 25 tons per year of nitrogen oxides (NO<sub>x</sub>) and sulfur dioxide (SO<sub>2</sub>). Additionally, the modification will be incorporated into the Part 70 Operating Permit through a significant permit modification issued pursuant to 326 IAC 2-7-12(d), because this modification triggers an NSPS to which no equipment in the permit had previously been subject and involves significant changes to existing compliance monitoring and determination requirements.

**Permit Level Determination – PSD or Emission Offset**

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this Part 70 source

modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/Emission Unit	Potential to Emit (tons/year)						
	PM	PM10	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	Lead
EU-07	4.93	8.13	38.70	4.91	74.97	32.77	0.00308
Emergency Generator	0.21	0.21	1.20	0.21	1.65	7.20	--
Total Project	5.14	8.34	39.90	5.12	76.62	39.97	0.00308
Significant Level	25	15	40	40	100	40	0.6

Because this source is considered a major PSD source and the unrestricted potential to emit of this modification is greater than forty (40) tons of SO<sub>2</sub> and NO<sub>x</sub> per year, and fifteen (15) tons of PM10 per year, this source has elected to limit the potential to emit of this modification as follows:

- (a) **No. 2 Fuel Oil Usage Limit**  
 The input of No. 2 fuel oil and No. 2 fuel oil equivalents to the new boiler shall be limited to less than 4,929,830 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) **Natural Gas Usage Limit**  
 The input of natural gas and natural gas equivalents to boiler EU-07 shall be limited to 1,785 MMCF per twelve (12) consecutive month period with compliance determined at the end of each month.
- (c) **SO<sub>2</sub>**
  - (i) The sulfur content in the No. 2 fuel oil used in Boiler EU-07 shall not exceed 0.1 percent.
  - (ii) For the purposes of determining compliance, every MMcf of natural gas burned shall be equivalent to 38.3 gallons of No. 2 fuel oil based on SO<sub>2</sub> emissions, such that the total gallons of No. 2 fuel oil and No. 2 fuel oil equivalent input does not exceed the limit specified.
- (d) The emissions of PM10 while burning No. 2 fuel oil shall not exceed 3.3 pounds per 1,000 gallons of No. 2 fuel oil burned.
- (e) **NO<sub>x</sub>**
  - (i) The emissions of NO<sub>x</sub> while burning natural gas shall not exceed 36.72 lb/MMcf. The emissions of NO<sub>x</sub> while burning No. 2 fuel oil shall not exceed 12.51 lb/Kgal.
  - (ii) For the purposes of determining compliance, every 1,000 gallons of No. 2 oil shall be equivalent to 0.3407 MMcf of natural gas based on NO<sub>x</sub> emissions, such that the total MMcf of natural gas and natural gas equivalent input does not exceed the limit specified.

Compliance with these emission limits will ensure that the potential to emit from this modification is less than forty (40) tons of SO<sub>2</sub> and NO<sub>x</sub> per year, and less than fifteen (15) tons of PM10 per year, and therefore will render the requirements of 326 IAC 2-2 not applicable.

See Appendix A for the detailed calculations.

### Federal Rule Applicability Determination

The following federal rules are applicable to the source due to this modification:

- (a) This source is subject to the New Source Performance Standards for Industrial-Commercial-Institutional Steam Generating Units (40 CFR 60.40b, Subpart Db), which is incorporated by reference as 326 IAC 12. The units subject to this rule include the following:

One (1) natural gas or low-sulfur No. 2 fuel oil fired boiler, identified as EU-07.

Nonapplicable portions of the NSPS will not be included in the permit. This source is subject to the following portions of Subpart Db.

- (1) 40 CFR 60.40b(a) and (j)
- (2) 40 CFR 60.41b
- (3) 40 CFR 60.42b(e),(j) and (k)(1) and (2)
- (4) 40 CFR 60.43b(f), (g), and (h)(5)
- (5) 40 CFR 60.44b(a), (h), (i), (l)(1)
- (6) 40 CFR 60.45b(j) and (k)
- (7) 40 CFR 60.46b(a), (c), (e)(1) and (4), and (i)
- (8) 40 CFR 60.47b(f) and (g)
- (9) 40 CFR 60.48b(a), (b)(1), (c), (d), (e)(2) and (3), (f), and (j)
- (10) 40 CFR 60.49b(a)(1), (2), and (3), (b), (d), (g)(1) through (g)(10), (h)(1) and (2), (i), (o), and (r)

The provisions of 40 CFR 60, Subpart A – General Provisions, which are incorporated as 326 IAC 12-1, apply to this source, except when otherwise specified in 40 CFR 60, Subpart IIII.

- (b) The existing boilers at Indiana University and the new boiler would have been subject to the requirements of the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD. However, on June 8, 2007, the United States Court of appeals for the District of Columbia Circuit (in NRDC v. EPA, no. 04-1386) vacated in its entirety the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD. Additionally, since the state rule at 326 IAC 20-95 incorporated the requirements of the NESHAP 40 CFR 63, Subpart DDDDD by reference, the requirements of 326 IAC 20-95 are no longer effective. Therefore, the requirements of 40 CFR 63, Subpart DDDDD and 326 IAC 20-95 are not included in the permit.
- (c) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to new or modified emission units that involve a pollutant-specific emission unit and meet the following criteria:
- (1) has a potential to emit before controls equal to or greater than the major source threshold for the pollutant involved;
  - (2) is subject to an emission limitation or standard for that pollutant; and
  - (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

The following table is used to identify the applicability of each of the criteria, under 40 CFR 64.1, to each new or modified emission unit involved:

Emission Unit	Control Device Used	Emission Limitation (Y/N)	Uncontrolled PTE (tons/year)	Controlled PTE (tons/year)	Major Source Threshold (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
EU-07 – NOx	FGR	Yes	81.99	32.77	100	N	N
EU-07 – SO2	None	Yes	102.90	38.70	100	N	N
EU-07 – PM	None	Yes	13.11	4.93	100	N	N
EU-07 – PM10	None	Yes	21.63	8.13	100	N	N

Based on this evaluation, the requirements of 40 CFR Part 64, CAM are not applicable to any of the new units as part of this modification.

**State Rule Applicability Determination - New Boiler**

The following state rules are applicable to the new boiler due to the modification:

**326 IAC 2-2 and 2-3 (PSD and Emission Offset)**

PSD and Emission Offset applicability is discussed under the Permit Level Determination - PSD and Emission Offset section.

**326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))**

The new boiler does not emit greater than ten (10) tons per year for a single HAP and greater than twenty-five (25) tons per year for a combination of HAPs and the addition of the boiler does not constitute a reconstruction of a process therefore 326 IAC 2-4.1 does not apply.

**326 IAC 6-2-4 (Particulate Matter Limitation)**

Pursuant to 326 IAC 6-2-4 (Particulate emission limitations for sources of indirect heating: emission limitations for facilities specified in 326 IAC 6-2-1(d)), the PM emissions from boiler EU-07 shall in no case exceed 0.189 pounds of particulate matter per million British thermal units heat input. This limitation is based on the following equation:

$$P_t = \frac{1.09}{Q^{0.26}}$$

where: P<sub>t</sub> - PM limit in pounds per MMBtu  
 Q - total source permitted capacity in MMBtu/hr  
 (Q=847 MMBtu/hr for this source)

**326 IAC 7-1 (Sulfur Dioxide Emission Limitations)**

Because the new boiler is a combustion source, and has a potential to emit sulfur dioxide greater than or equal to twenty-five (25) tons per year, this source is subject to 326 IAC 7-1.1-2(a)(3) and sulfur dioxide emissions shall be limited to five-tenths (0.5) pound per MMBtu for distillate oil combustion. Based on AP-42 emission factors, this is equivalent to a fuel oil sulfur content limit of 0.5%, therefore, the boiler will comply with 326 IAC 7-1.1-2(a)(3).

**326 IAC 2-6 (Emission Reporting)**

Since this source is required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program, and has a potential to emit PM-10 of over two hundred and fifty tons per year, this source is subject to 326 IAC 2-6 (Emission Reporting). In accordance with the compliance schedule in 326 IAC 2-6-3, an emission statement must be submitted annually by July 1. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

**Testing Requirements**

The emission factors used in estimating the NOx emissions were based on vendor guarantees, not on AP-42. Because boiler EU-07 will be required to install and operate a NOx continuous emissions monitor to comply with the NSPS, no stack testing will be necessary to verify the vendor guaranteed emission factors.

## 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 in 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 Determination Requirements applicable to this modification are as follows:

- (a) Boiler EU-07 has applicable compliance determination requirements as specified below:
  - (1) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions from Boiler EU-07 do not exceed five-tenths (0.5) pounds per million Btu heat input for distillate oil combustion or does not exceed a sulfur content of 0.1 percent by:
    - (A) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification; or
    - (B) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
      - (i) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
      - (ii) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
  - (2) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from boiler EU-07, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

The Compliance Monitoring Requirements applicable to this modification are as follows:

- (a) Boiler EU-07 has applicable compliance monitoring requirements as specified below:
  - (1) Visible emission (VE) notations of stack exhaust 002 shall be performed once per day during normal daylight operations while boiler EU-07 combusts fuel oil. A trained employee shall record whether emissions are normal or abnormal.
  - (2) If abnormal emissions are observed at exhaust 002 while boiler EU-07 combusts fuel oil, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Observation of abnormal emissions that do not violate an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

- (3) "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.
- (4) 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 the boilers.
- (5) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), the Permittee is required to calibrate, certify, operate and maintain a continuous emission monitoring system (CEMS) for measuring NOx emissions rates from the boiler stack (stack 002) in accordance with 326 IAC 3-5 to demonstrate compliance with Condition D.1.2(b).
- (6) All continuous emission monitoring systems are subject to monitor system certification requirements pursuant to 326 IAC 3-5-3.
- (7) Pursuant to 326 IAC 3-5-4(a), if revisions are made to the continuous monitoring standard operating procedures (SOP), the Permittee shall submit updates to the department biennially.

#### Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. T165-6462-00009, issued October 1, 2004 in order to: 1) incorporate the modification described in this document, 2) update and clarify state and federal rule requirements, and 3) update general Part 70 permit language based on global appeal resolutions. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**. The Table of Contents has been updated accordingly.

1. As discussed in the Federal Rule Applicability section above, the Permittee is not subject to 326 IAC 20-95, the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR 63.7480, Subpart DDDDD). Therefore, Conditions C.21 through C.24, which described compliance steps for the existing boilers, have been removed from this permit.
2. All references to IDEM, OAQ's mailing address and contact numbers have been updated throughout the permit. Mail codes were added throughout the permit as appropriate.

Indiana Department of Environmental Management  
Office of Air Quality  
100 North Senate Avenue, ~~P.O. Box 6045~~  
Indianapolis, Indiana ~~46206-6045~~ **46204-2251**

Telephone No.: 317-233-~~5674~~**0178**  
Facsimile No.: 317-233-~~5967~~**6865**

Permits Branch: **MC 61-53 IGCN 1003**  
Compliance Branch: **MC 61-53 IGCN 1003**  
Air Compliance Section: **MC 61-53 IGCN 1003**  
Compliance Data Section: **MC 61-52 IGCN 1003**  
Asbestos Section: **MC 61-52 IGCN 1003**  
Technical Support and Modeling: **MC 61-50 IGCN 1003**

3. General information has been updated in Section A.1. IDEM, OAQ has decided to remove the information regarding the Responsible Official from Section A.1 of the permit. IDEM, OAQ will continue to gather and retain this information up-to-date in their permit tracking system. The mailing address for the source has been updated throughout the permit.
4. IDEM, OAQ has clarified Condition B.2 – Permit Term.

5. IDEM, OAQ has included Term of Conditions pursuant to 326 IAC 2-1.1-9.5. The remaining conditions under Section B were renumbered accordingly.
6. IDEM has determined that the Permittee is not required to keep records of all preventive maintenance. However, where the Permittee seeks to demonstrate that an emergency has occurred, the Permittee must provide upon request, records of preventive maintenance in order to establish that the lack of proper maintenance did not cause or contribute to the deviation. Therefore, IDEM has amended the Preventive Maintenance and Emergency Provisions conditions. Corresponding record keeping requirements in Section D.1 through D.7 were updated accordingly.
7. For clarification purposes, Enforceability and Operational Flexibility conditions have been revised.
8. Indiana has updated the Credible Evidence condition in the permit pursuant to the provisions in 326 IAC 1-1-6. The rule has been in effect since March 16, 2005.
9. The Prior Permits Superseded condition was revised to include the citations for modifications to Part 70 Permits.
10. The 326 IAC 6-3 revisions that became effective on June 12, 2002 were approved into the State Implementation Plan (SIP) on September 23, 2005. These rules replace the previous version of 326 IAC 6-3 (Process Operations) that had been part of the SIP; therefore, the requirements of the previous version of 326 IAC 6-3-2 are no longer applicable to this source. A new condition C.1 has been added to the permit including the requirements of 326 IAC 6-3-2.
11. In order to avoid duplication of requirements which may be included in D sections, Operation of Equipment condition in Section C has been removed from the permit.
12. IDEM has determined that no additional monitoring will be required during COM downtime until the COM has been down for twenty-four (24) hours. This allows the Permittee to focus on the task of repairing the COM during the first twenty-four (24) hour period. After twenty-four (24) hours of COM downtime, the Permittee will be required to conduct Method 9 readings for thirty (30) minutes. Once Method 9 readings are required to be performed, the readings will be performed twice per day at least four (4) or six (6) hours apart, rather than once every four (4) hours, until the COM is back in service.
13. IDEM, OAQ realizes that the specifications under Pressure Gauge and Other Instrument Specifications can only be practically applied to analog units, and has therefore clarified the condition to state that the condition only applies to analog units. Upon further review, IDEM, OAQ has also determined that the accuracy of the instruments is not nearly as important as whether the instrument has a range that is appropriate for the normal expected reading of the parameter. Therefore, the accuracy requirements have been removed from the condition. Therefore, Pressure Gauge and Other Instrument Specifications condition was revised.
14. IDEM has reconsidered the requirement to develop and follow a Compliance Response Plan. The Permittee will still be required to take reasonable response steps when a compliance monitoring parameter is determined to be out of range or abnormal. Replacing the requirement to develop and follow a Compliance Response Plan with a requirement to take reasonable response steps will ensure that the control equipment is returned to proper operation as soon as practicable, while still allowing the Permittee the flexibility to respond to situations that were not anticipated. Therefore, the condition for "Compliance Response Plan" has been replaced by the condition for "Response to Excursions or Exceedances". The Section D conditions that refer to this condition have been revised to reflect the new condition title.
15. General Record Keeping Requirements and General Reporting Requirements were updated.

16. IDEM has determined that it is the Permittee's responsibility to include routine control device inspection requirements in the applicable preventive maintenance plan. Since the Permittee is in the best position to determine the appropriate frequency of control device inspections and the details regarding which components of the control device should be inspected, the conditions requiring control device inspections have been removed from the permit. In addition, the requirement to keep records of the inspections has been removed.
17. Paragraph (a) of the Broken or Failed Bag Detection conditions was deleted. For multi-compartment baghouses, the permit will not specify what actions the Permittee needs to take in response to a broken bag. Paragraph (b) of the condition has been revised for those processes that operate in batch mode. The condition required an emission unit to be shut down immediately in case of baghouse failure. However, IDEM is aware there can be safety issues with shutting down a process in the middle of a batch. IDEM also realizes that in some situations, shutting down an emissions unit mid-process can cause equipment damage. Therefore, since it is not always possible to shut down a process with material remaining in the equipment, IDEM has revised the condition to state that in the case of baghouse failure, the feed to the process must be shut off immediately, and the process shall be shut down as soon as practicable.
18. IDEM has determined that once per day monitoring of visible emissions, scrubber liquid flow rate, and scrubber liquid pH is generally sufficient to ensure proper operation of the control devices. IDEM has also determined that monitoring these parameters once per day is sufficient to satisfy the requirements of the Part 70 rules at 326 IAC 2-7-5 and 326 IAC 2-7-6.
19. IDEM realizes that in some situations, shutting down an emission unit mid-process can cause equipment damage. Therefore, since it is not always possible to shut down a process with material remaining in the equipment, IDEM has revised Condition D.2.5 (formerly D.2.6) to state that in the case of scrubber failure, the feed to the process be shut down immediately, and the process shall be shut down as soon as practicable.
20. Conditions D.2.1 and D.3.1 have been modified to include the boiler capacity variable (Q) of 740 MMBtu per hour, as documented in the TSD to Part 70 Permit T105-6642-00005.
21. The source address has been changed throughout the permit as follows:

~~700~~ **820** North Walnut Grove, Bloomington, Indiana 47405-2206

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

The Permittee owns and operates a stationary source power plant that supplies campus with process heat from boilers.

Source Address: 700 ~~820~~ North Walnut Grove, Bloomington, Indiana 47405-2206  
Mailing Address: ~~700 North Walnut Grove~~ **1514 East 3<sup>rd</sup> Street**, Bloomington, Indiana 47405-2206  
General Source Phone Number: (812)855-3231  
SIC Code: 8221  
County Location: Monroe  
Source Location Status: Attainment for all criteria pollutants  
Source Status: Part 70 **Operating** Permit Program  
Major Source, under PSD Rules  
**1 of 28 listed source categories**  
**Major Source, Section 112 of the Clean Air Act**

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

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

- ~~(a) Two (2) coal fired boilers, identified as EU-01 and EU-02, both constructed in 1955, each with a maximum design capacity of 100 MMBtu per hour heat input each (operating at a maximum capacity of 80 MMBtu per hour heat input each), and each equipped with a multiclone for particulate control and a portable startup/shutdown natural gas fired burner rated at 4.2 MMBtu per hour heat input each, both exhausting to stack 001.~~
- (a) **One (1) natural gas or low-sulfur No. 2 fuel oil fired boiler, identified as EU-07, approved for construction in 2007, with a maximum design capacity of 217 MMBtu per hour when combusting natural gas and 208 MMBtu per hour when combusting fuel oil, and equipped with low NOx burners and induced flue gas recirculation for NOx control, with continuous monitors for monitoring carbon monoxide and NOx, exhausting to stack 002. Under 40 CFR Subpart Db, this is a new affected source.**
- (b) Two (2) coal, natural gas, No.1 or No.2 fuel oil fired boilers, identified as EU-03 and EU-04, both constructed in 1959, with a maximum design capacity of 125 MMBtu per hour heat input each (operating at a maximum capacity of 100 MMBtu per hour heat input each when combusting coal or a combination of fuels), and with a maximum design capacity of 80 MMBtu per hour heat input each when combusting natural gas and/or fuel oil, each equipped with low NOx burners for natural gas and/or fuel oil, and each with a multiclone for particulate control when combusting coal and/or fuel oil, both exhausting at stack 002.
- (c) One (1) natural gas, No.1 or No.2 fuel oil fired boiler, identified as EU-05, constructed in 1964 and modified in 1989, with a maximum design capacity of 190 MMBtu per hour heat input, equipped with low NOx burners (two natural gas fired burners at 75 MMBtu per hour heat input each) for natural gas and/or fuel oil, and a multiclone for particulate control when combusting fuel oil, exhausting to stack 002 **or 003**.
- (d) One (1) coal, natural gas, No.1 or No.2 fuel oil fired boiler, identified as EU-06, constructed in 1970, with a maximum design capacity of 190 MMBtu per hour heat input when combusting coal and/or fuel oil, and 150 MMBtu per hour heat input (two natural gas fired burners rated at 75 MMBtu per hour heat input each) when combusting natural gas, equipped with low NOx burners for natural gas and/or fuel oil, a multiclone and an electrostatic precipitator for particulate control when combusting coal and/or fuel oil, and a continuous opacity monitor for monitoring opacity, exhausting to stack 003.
- (e) One (1) coal storage and handling system, with a maximum design throughput of 200 tons of coal per hour and 210,000 tons of coal per year, consisting of the following:
- (1) One (1) coal truck receiving system, consisting of an interior wet suppression system to control coal dust emissions during coal receiving, and two (2) truck hoppers.
  - (2) Four (4) enclosed belt conveyors, and one (1) enclosed bucket conveyor, with particulate emissions controlled by a fabric filter system, with four (4) dust collectors, identified as DC1 through 4, located internally at various points along the enclosed conveyor system, with all dust collectors exhausting internally.
  - (3) One (1) coal storage silo with a storage capacity of 1,000 tons of coal, with particulate emissions controlled by one (1) dust collector, identified as DC6, exhausting externally at vent 6.

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):

...

**(c) Oil fired emergency generators not exceeding 1,600 horsepower:**

**(1) One (1) emergency generator at MSB 1 rated at 1200 horsepower.**

**SECTION B GENERAL CONDITIONS**

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

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, 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]**

This permit 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.

**B.3 Enforceability [326 IAC 2-7-7]**

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.4 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.5 Severability [326 IAC 2-7-5(5)]**

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

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

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

**B.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 not 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.

~~(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. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:~~

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

~~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 a 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) — If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:~~

- ~~(1) — Identification of the individual(s), or a job title, 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.~~

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

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

~~The PMP extension notification does not require the certification by the responsible official as defined by 326 IAC 2-7-1(34).~~

- ~~(b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.~~
- ~~(c) 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 PMP does not require the certification by the responsible official as defined by 326 IAC 2-7-1(34).~~
- ~~(d) 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: 317-233-5674 (ask for Compliance Section)  
Facsimile Number: 317-233-5967~~

~~(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, P. O. Box 6015  
Indianapolis, Indiana 46206-6015~~

~~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) 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 in 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(e)(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]~~

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- ~~(a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either~~
- ~~(1) incorporated as originally stated,~~
  - ~~(2) revised, or~~
  - ~~(3) deleted~~
- ~~by this permit.~~
- ~~(b) All previous registrations and permits are superseded by this permit.~~

~~B.14 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]~~

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- ~~(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, P.O. Box 6015  
Indianapolis, Indiana 46206-6015~~

~~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.15 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.16 Permit Renewal [326 IAC 2-7-4]~~

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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, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

~~(b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]~~

~~(1) A timely renewal application is one that is:~~

~~(A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and~~

~~(B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.~~

~~(2) If IDEM, OAQ, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.~~

~~(c) Right to Operate After Application for Renewal [326 IAC 2-7-3]~~

~~If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, 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.~~

~~(d) United States Environmental Protection Agency Authority [326 IAC 2-7-8(e)]~~

~~If IDEM, OAQ, fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.~~

~~B.17 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, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

~~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)]~~

~~(d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.~~

~~B.18 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12 (b)(2)]~~

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- ~~(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.19 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]~~

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- ~~(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 emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);~~
- ~~(4) The Permittee notifies the:~~

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

~~and \_\_\_\_\_~~

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

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

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

~~Such records shall consist of all information required to be submitted to IDEM, 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 increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).~~
- ~~(d) — Alternative Operating Scenarios [326 IAC 2-7-20(d)]  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.~~

~~B.20 — 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.21 — Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2] [IC 13-30-3-1]~~

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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.22 — 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, P.O. Box 6015  
Indianapolis, Indiana 46206-6015~~

~~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.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]~~

~~(a) The Permittee shall pay annual fees to IDEM, OAQ in accordance with 326 IAC 2-7-19.~~

~~(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.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314]~~

~~Notwithstanding the conditions of this permit that state specific methods that may be used to demonstrate compliance with, or a violation of, applicable requirements, any person (including the Permittee) may also use other credible evidence to demonstrate compliance with, or a violation of, any term or condition of this permit~~

**SECTION C SOURCE OPERATION CONDITIONS**

Entire Source

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

**C.1 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.2 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.3 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. 326 IAC 9-1-2 is not federally enforceable.

**C.4 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.5 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 1-7-2, 326 IAC 1-7-3(e) and (d), 326 IAC 1-7-4(d), (e), and (f), and 326 IAC 1-7-5(d) are not federally enforceable.

**C.6 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]**

The Permittee shall comply with the applicable requirements of 326 IAC 14-10, 326 IAC 18, and 40 CFR 61.140.

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

**C.7 Performance Testing [326 IAC 3-6]**

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing 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, P. O. Box 6015  
Indianapolis, Indiana 46206-6015~~

~~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 source 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.8 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.9 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 thirty (30) days provided the Permittee notifies:~~

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

~~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.10 Maintenance of Continuous Opacity Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]~~

- ~~(a) The Permittee shall install, calibrate, maintain, and operate all necessary continuous opacity monitoring systems (COMS) and related equipment. For a boiler, the COM shall be in operation at all times that the induced draft fan is in operation, except during COM maintenance downtime or when natural gas is the only fuel being combusted.~~

- (b) ~~All continuous opacity monitoring systems shall meet the performance specifications of 40 CFR 60, Appendix B, Performance Specification No. 1, and are subject to monitor system certification requirements pursuant to 326 IAC 3-5.~~
- (c) ~~Whenever a continuous opacity monitor (COM) is malfunctioning or will be down for calibration, maintenance, or repairs for a period of one (1) hour or more, compliance with the applicable opacity limits shall be demonstrated by the following:~~
- (1) ~~The affected boiler(s) shall combust only fuel oil or natural gas and visible emission (VE) notations shall be performed once per shift during daylight operations following the shutdown or malfunction of the certified COM. A trained employee shall record whether emissions are normal or abnormal for the state of operation of the emission unit at the time of the reading.~~
- (A) ~~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.~~
- (B) ~~VE notations may be discontinued, and the affected boiler(s) may resume combustion of coal, once a COM is online.~~
- (d) ~~Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous opacity monitoring system pursuant to 326 IAC 3-5.~~

~~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.~~

~~C.12 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]~~

- (a) ~~Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ( $\pm 2\%$ ) of full scale reading.~~
- (b) ~~Whenever a condition in this permit requires the measurement of a voltage or current, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ( $\pm 2\%$ ) of full scale reading.~~
- (c) ~~The Permittee may request the IDEM, OAQ approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.~~

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

~~C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]~~

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

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

~~Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015~~

~~Indianapolis, Indiana 46206-6015~~

~~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.14 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]~~

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

~~C.15 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-7-5] [326 IAC 2-7-6]~~

- ~~(a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:
  - ~~(1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.~~
  - ~~(2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.~~~~
- ~~(b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
  - ~~(1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or~~
  - ~~(2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.~~
  - ~~(3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be 10 days or more~~~~

~~until the unit or device will be shut down, then the permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.~~

- ~~(4) Failure to take reasonable response steps shall be considered a deviation of the permit.~~
- ~~(c) The Permittee is not required to take any further response steps for any of the following reasons:~~
- ~~(1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.~~
- ~~(2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for a minor permit modification to the permit, and such request has not been denied.~~
- ~~(3) An automatic measurement was taken when the process was not operating.~~
- ~~(4) The process has already returned or is returning to operating within a normal parameters and no response steps are required.~~
- ~~(d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B- Deviations from Permit Requirements and Conditions.~~
- ~~(e) The Permittee shall record all instances when, in accordance with Section D, response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.~~
- ~~(f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.~~
- ~~C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]~~
- ~~(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate 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.17 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)] [326 IAC 2-6]~~

~~(a) 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) (A Regulated pollutant which is used only for purposes of Section 19 of this rule) from the source, for purposes 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, P.O. Box 6015  
Indianapolis, Indiana 46206-6015~~

~~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.18 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]~~

~~(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.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]~~

~~(a) The source 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, P. O. Box 6015  
Indianapolis, Indiana 46206-6015~~

- ~~(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) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. 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.~~

### **Stratospheric Ozone Protection**

#### **C.20 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.~~

### **MACT Standards [326 IAC 2-7-5(1)]**

#### **C.21 General Provisions Relating to NESHAP [326 IAC 20 1][40 CFR Part 63, Subpart A]**

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- ~~(a) The provisions of 40 CFR 63 Subpart A General Provisions, which are incorporated as 326 IAC 20 1 1, apply to the affected sources, as designated by 40 CFR 63.7490(a) for boilers EU-01, EU-02, EU-03, EU-04 and EU-06 and 40 CFR 63.7506(b) for boiler EU-05, except when otherwise specified in 40 CFR 63 Subpart DDDDD. The Permittee must comply with these requirements on and after the effective date of 40 CFR 63, Subpart DDDDD.~~
- ~~(b) Since the applicable requirements associated with the compliance options for the affected source for the large solid fuel subcategory (boilers EU-01, EU-02, EU-03, EU-04 and EU-06) are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition.~~

#### **C.22 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 63, Subpart DDDDD]**

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- ~~(a) The affected sources are subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters, (40 CFR 63, Subpart DDDDD), as of the effective date of 40 CFR 63, Subpart DDDDD. Pursuant to this rule, the Permittee must comply with 40 CFR 63, Subpart DDDDD on and after three years after the date of publication of the final rule for 40 CFR 63, Subpart DDDDD in the Federal Register.~~
- ~~(b) The following emissions units comprise the affected source for the large solid fuel subcategory: boilers EU-01, EU-02, EU-03, EU-04 and EU-06.~~

- ~~\_\_\_\_\_ (c) The following emissions unit comprises the affected source for the large liquid fuel subcategory: boiler EU-05.~~
- ~~\_\_\_\_\_ (d) The definitions of 40 CFR 63, Subpart DDDDD at 40 CFR 63.7575 are applicable to the affected sources.~~
- ~~\_\_\_\_\_ (e) Since the applicable requirements associated with the compliance options for the affected sources for the large solid fuel subcategory (boilers EU-01, EU-02, EU-03, EU-04 and EU-06) are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition for the affected sources for the large solid fuel subcategory.~~

~~C.23 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters Notification Requirements [40 CFR 63, Subpart DDDDD]~~

- ~~\_\_\_\_\_ (a) Pursuant to 40 CFR 63.7545(a) and 40 CFR 63.7506(b), the Permittee shall submit an Initial Notification for boiler EU-05 containing the information specified in 40 CFR 63.9(b)(2) not later than 120 days after the date of publication of the final rule for 40 CFR 63, Subpart DDDDD in the Federal Register, as required by 40 CFR 63.7545(b).~~
- ~~\_\_\_\_\_ (b) Pursuant to 40 CFR 63.7545, the Permittee shall submit the notifications in 40 CFR 63.7(b) and (c), 63.8(e), (f)(4), and (f)(6), and 63.9(b) through (h) that apply to the affected sources for the large solid fuel subcategory (boilers EU-01, EU-02, EU-03, EU-04 and EU-06) and chosen compliance methods by the dates specified. These notifications include, but are not limited to, the following:
  - ~~\_\_\_\_\_ (1) An Initial Notification containing the information specified in 40 CFR 63.9(b)(2) not later than 120 days after the date of publication of the final rule for 40 CFR 63, Subpart DDDDD in the Federal Register, as required by 40 CFR 63.7545(b).~~
  - ~~\_\_\_\_\_ (2) If required to conduct a performance test, a notification of intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required by 40 CFR 63.7(b)(1) and 40 CFR 63.7545(d).~~
  - ~~\_\_\_\_\_ (3) If required to conduct an initial compliance demonstration as specified in 40 CFR 63.7530(a), a Notification of Compliance Status containing the information required by 40 CFR 63.9(h)(2)(ii) in accordance with 40 CFR 62.7545(e).
    - ~~\_\_\_\_\_ (A) For each initial compliance demonstration, the Permittee shall submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of the performance test and/or other initial compliance demonstrations according to 40 CFR 63.10(d)(2).~~
    - ~~\_\_\_\_\_ (B) The Notification of Compliance Status shall contain the items in 40 CFR 63.7545(e)(1) through (9), as applicable.~~~~
  - ~~\_\_\_\_\_ (4) If required to use a continuous monitoring system (CMS), notification of a performance evaluation, if required, as specified in 40 CFR 63.9(g), by the date of submission of the notification of intent to conduct a performance test.~~~~
- ~~\_\_\_\_\_ (c) The notifications required by paragraphs (a) and (b) shall be submitted to:~~

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

\_\_\_\_\_ and

\_\_\_\_\_ United States Environmental Protection Agency, Region V  
\_\_\_\_\_ Director, Air and Radiation Division  
\_\_\_\_\_ 77 West Jackson Boulevard  
\_\_\_\_\_ Chicago, Illinois 60604-3590

\_\_\_\_\_ The notification requires the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

C.24 \_\_\_\_\_ Requirement to Submit a Significant Permit Modification Application [326 IAC 2-7-12][326 IAC 2-7-5]

\_\_\_\_\_ The Permittee shall submit an application for a significant permit modification to IDEM, OAQ to include information regarding which compliance option or options will be chosen in the Part 70 permit for the affected sources for the large solid fuel subcategory (boilers EU-01, EU-02, EU-03, EU-04 and EU-06).

\_\_\_\_\_ (a) \_\_\_\_\_ The significant permit modification application shall be consistent with 326 IAC 2-7-12, including information sufficient for IDEM, OAQ to incorporate into the Part 70 permit the applicable requirements of 40 CFR 63, Subpart DDDDD, a description of the affected sources and activities subject to the standard, and a description of how the Permittee will meet the applicable requirements of the standard.

\_\_\_\_\_ (b) \_\_\_\_\_ The significant permit modification application shall be submitted no later than nine months prior to the compliance date as specified in 40 CFR 63.7495(b).

\_\_\_\_\_ (c) \_\_\_\_\_ The significant permit modification application shall be submitted to:

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

## **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)]**

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(a) This permit, T105-6642-00005, 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)]**

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(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)]**

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- (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 the "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. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent 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) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:
- (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.

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

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

The PMP extension notification does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (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]**

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- (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]**

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- (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]**

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- (a) All terms and conditions of permits established prior to T105-6642-00005 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) Provided that all terms and conditions are accurately reflected in this combined permit, all previous registrations and permits are superseded by this combined new source review and part 70 operating permit.

**B.14 Termination of Right to Operate [326 IAC 2-7-10][326 IAC 2-7-4(a)]**

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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)]**

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- (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 61-52 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 Operating 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)]**

- (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]**

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- (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)]**

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- (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]**

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- (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 the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) **Alternative Operating Scenarios [326 IAC 2-7-20(d)]**  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, 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]**

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

- (b) Any modification at an existing major source is governed by the requirements of 326 IAC 2-2.

**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]**

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**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 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).**

## 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 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.

##### 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.

##### 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]**

- (a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. 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]

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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)]

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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 Maintenance of Continuous Opacity Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]**

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- (a) The Permittee shall install, calibrate, maintain, and operate all necessary continuous opacity monitoring systems (COMS) and related equipment. For a boiler, the COMS shall be in operation at all times that the induced draft fan is in operation.
- (b) All COMS shall meet the performance specifications of 40 CFR 60, Appendix B, Performance Specification No. 1, and are subject to monitor system certification requirements pursuant to 326 IAC 3-5.
- (c) In the event that a breakdown of a COMS occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.
- (d) Whenever a COMS is malfunctioning or is down for maintenance or repairs for a period of twenty-four (24) hours or more and a backup COMS is not online within twenty-four (24) hours of shutdown or malfunction of the primary COMS, the Permittee shall provide a certified opacity reader, who may be an employee of the Permittee or an independent contractor, to self-monitor the emissions from the emission unit stack.
  - (1) Visible emission readings shall be performed in accordance with 40 CFR 60, Appendix A, Method 9, for a minimum of five (5) consecutive six (6) minute averaging periods beginning not more than twenty-four (24) hours after the start of the malfunction or down time.
  - (2) Method 9 opacity readings shall be repeated for a minimum of five (5) consecutive six (6) minute averaging periods at least twice per day during daylight operations, with at least four (4) hours between each set of readings, until a COMS is online.
  - (3) Method 9 readings may be discontinued once a COMS is online.
  - (4) Any opacity exceedances determined by Method 9 readings shall be reported with the Quarterly Opacity Exceedances Reports.
- (e) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous opacity monitoring system pursuant to 326 IAC 3-5, (and 40 CFR 60 and/or 40 CFR 63).

**C.12 Maintenance of Continuous Emission Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]**

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- (a) The Permittee shall install, calibrate, maintain, and operate all necessary continuous emission monitoring systems (CEMS) and related equipment.
- (b) In the event that a breakdown of a continuous emission monitoring system occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.
- (c) Whenever a continuous emission monitor other than an opacity monitor is malfunctioning or will be down for calibration, maintenance, or repairs for a period of four (4) hours or more, a calibrated backup CEMS shall be brought online within four (4) hours of shutdown of the primary CEMS, and shall be operated until such time as the primary CEMS is back in operation.

- (d) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to 40 CFR 60 and/or 63.

**C.13 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]**

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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.

**C.14 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]**

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- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

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

**C.15 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 has prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) 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.16 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.17 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; and/or
  - (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.18 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 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.19 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.20 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 326 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(II)) 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.21 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2]**

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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 61-52 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) **The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. 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.22 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

#### SECTION D.1 FACILITY OPERATION CONDITIONS

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

- (a) Two (2) coal fired boilers, identified as EU-01 and EU-02, both constructed in 1955, each with a maximum design capacity of 100 MMBtu per hour heat input each (operating at a maximum capacity of 80 MMBtu per hour heat input each), and each equipped with a multiclone for particulate control and a portable startup/shutdown natural gas fired burner rated at 4.2 MMBtu per hour heat input each, both exhausting to stack 001.

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

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

#### **D.1.1 Particulate Matter Limitation (PM) [326 IAC 6-2-3]**

Pursuant to OP 53-02-92-0079 and 0080, issued January 12, 1990, and 326 IAC 6-2-3(b) (Particulate emission limitations for sources of indirect heating: emission limitations for facilities specified in 326 IAC 6-2-1(c)), the PM emissions from boilers EU-01 and EU-02 shall in no case exceed 0.38 pounds of particulate matter per million British thermal units heat input. This limitation is based on the following equation:

$$P_i = (C * a * h) / (76.5 * Q^{0.75} * N^{0.25})$$

where:  $P_i$  - PM limit in pounds per MMBtu  
C - Maximum ground level concentration  
a - Plume rise factor  
h - Stack height in feet  
Q - total source permitted capacity in MMBtu/hr  
N - Number of stacks

#### **D.1.2 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1.1]**

Pursuant to OP 53-02-92-0079 and 0080, issued January 12, 1990, and 326 IAC 7-1.1-2, sulfur dioxide emissions from each boiler shall not exceed 6.0 pounds per million British thermal units (lb/MMBtu) of heat input.

#### **D.1.3 Heat Input Capacity Limitation**

Pursuant to OP 53-02-92-0079 and 0080, issued January 12, 1990, condition 4, boilers EU-01 and EU-02 shall not operate above 80% of the maximum rated capacity (80 million Btu per hour of heat input).

#### **D.1.4 Operation Standards [40 CFR 279] [329 IAC 13]**

All coal burned, including coal treated with any additive, shall meet ASTM specifications for classification as coal (ASTM D388).

#### **D.1.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]**

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

- (a) The PMP for a multiclone shall include inspections of the internal components of the multiclone, conducted every six thousand (6,000) hours of operation, in accordance with the Section B - Preventive Maintenance Plan. Items to be checked include air infiltration, plugging of inlet spinner vanes, outlet tube erosion, deposits on the inside surfaces of the cyclone tubes, and plugging of the bottom of the cyclone tubes.

### **Compliance Determination Requirements**

#### **D.1.6 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]**

Pursuant to the Amendment to OP 53-02-92-0079 through 0084, issued October 19, 1990, the Permittee shall stack test for particulate matter emissions to determine compliance with 326 IAC 6-2 for boilers EU-01 and EU-02.

- ~~(1) Boiler EU-02 shall be tested for particulate matter emissions every three years starting from the most recent compliant test.~~
- ~~(2) Boiler EU-01 shall be tested for particulate matter emissions every three years starting from the most recent compliant test.~~

~~These tests shall be performed no later than thirty six (36) months after the most recent compliant stack test.~~

~~D.1.7 Particulate Matter Control [326 IAC 2-7-6(6)]~~

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~~Except as otherwise provided by statute or rule or in this permit, the multiclones for particulate control shall be operated at all times that the boilers (EU-01 and EU-02) vented to the multiclones are in operation.~~

~~D.1.8 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 3-7] [326 IAC 7-2] [326 IAC 7-1.1-2]~~

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- ~~(a) Pursuant to OP 53-02-92-0079 and 0080, issued January 12, 1990, and pursuant to 326 IAC 7-2-1(c), the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed six (6.0) pounds per MMBtu using a calendar month average when combusting coal.~~
- ~~(b) Pursuant to 326 IAC 7-2-1(e) and 326 IAC 3-7, coal sampling and analysis data shall be collected as follows:
  - ~~(1) Coal sampling shall be performed using the methods specified in 326 IAC 3-7-2(a), and sample preparation and analysis shall be performed as specified in 326 IAC 3-7-2(c), (d), and (e); or~~
  - ~~(2) Pursuant to 326 IAC 3-7-2(b)(2) and 326 IAC 3-7-3, manual or other non-ASTM automatic sampling and analysis procedures may be used upon a demonstration, submitted to the department for approval, that such procedures provide sulfur dioxide emission estimates representative either of estimates based on coal sampling and analysis procedures specified in 326 IAC 3-7-2 or of continuous emissions monitoring; or~~
  - ~~(3) The Permittee shall meet the minimum sampling requirements specified in 326 IAC 3-7-2(b)(3), and sample preparation and analysis shall be performed as specified in 326 IAC 3-7-2(c), (d), and (e).~~~~
- ~~(c) Upon written notification to IDEM by a facility owner or operator, continuous emission monitoring data collected and reported pursuant to 326 IAC 3-5 may be used as the means for determining compliance with the emission limitations in 326 IAC 7. Upon such notification, the other requirements of 326 IAC 7-2 shall not apply. [326 IAC 7-2-1(g)]~~

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

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~~D.1.9 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]~~

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- ~~(a) Visible emission (VE) notations of the boiler stack exhaust (stack 001) shall be performed once per shift during normal daylight operations while combusting coal. A trained employee shall record whether emissions are normal or abnormal.~~
- ~~(b) If abnormal emissions are observed at any boiler exhaust, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. Observation of abnormal emissions that do not violate an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.~~

- (c) ~~A 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.~~
- (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 the boilers.~~

**D.1.10 Monitoring: Multiclones [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

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- (a) ~~The ability of the multiclones to control particulate emissions shall be monitored at least once per shift, when their associated units are in operation, by measuring and recording the total static pressure drop across the collectors.~~
- (b) ~~Reasonable response steps shall be taken in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records and Reports whenever the static pressure drop is outside of the normal operating range for the corresponding boiler steam load. A pressure drop reading that is outside normal range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records and Reports, shall be considered a violation of this permit.~~

**D.1.11 Multiclone Failure Detection [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

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In the event that multiclone failure has been observed:

~~Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions). Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.~~

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

**D.1.12 Record Keeping Requirements**

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- (a) ~~Pursuant to OP 53-02-92-0079 and 0080, issued January 12, 1990, and to document compliance with Condition D.1.2, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the SO<sub>2</sub> emission limit established in D.1.2. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.~~
- ~~(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.~~
- (b) ~~To document compliance with Section C - Opacity and Conditions D.1.1 and D.1.10, the Permittee shall maintain records in accordance with (1) through (4) below. Records shall be complete and sufficient to establish compliance with the limits established in Section C - Opacity, and in Conditions D.1.1 and D.1.10. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.~~
- ~~(1) Data and results from the most recent stack tests;~~
- ~~(2) All parametric monitoring readings;~~

- ~~(3) — Records of the results of the multiclones – inspections (including usage hours);  
and~~
- ~~(4) — All preventive maintenance measures taken.~~
- ~~(c) — To document compliance with Condition D.1.3, the Permittee shall maintain records of  
monthly average heat input (MMBtu per hour) for each boiler.~~
- ~~(d) — To document compliance with Condition D.1.9, the Permittee shall maintain records of  
daily visible emission notations of stack exhaust, 001.~~
- ~~(e) — To document compliance with Condition D.1.5, the Permittee shall maintain records of  
any additional inspections prescribed by the Preventive Maintenance Plan.~~
- ~~(f) — All records shall be maintained in accordance with Section C – General Record Keeping  
Requirements, of this permit.~~

#### D.1.13 Reporting Requirements

- ~~(a) — Pursuant to OP 53-02-92-0079 and 0080, issued January 12, 1990, a quarterly summary  
of the information to document compliance with Condition D.1.2 shall be submitted to the  
address listed in Section C – General Reporting Requirements, using the reporting forms  
located at the end of this permit, or their equivalent, within thirty (30) days after the end of  
the quarter being reported.~~
- ~~(b) — 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,  
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.~~

### SECTION D.1

### FACILITY OPERATION CONDITIONS

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

- (a) One (1) natural gas or low-sulfur No. 2 fuel oil fired boiler, identified as EU-07, approved for construction in 2007, with a maximum design capacity of 217 MMBtu per hour when combusting natural gas and 208 MMBtu per hour when combusting fuel oil, and equipped with low NOx burners and induced flue gas recirculation for NOx control, with continuous monitors for monitoring carbon monoxide and NOx, exhausting to stack 002. Under 40 CFR 60, Subpart Db, this is a new affected source.**

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

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

##### D.1.1 Particulate Matter Limitation (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate emission limitations for sources of indirect heating: emission limitations for facilities specified in 326 IAC 6-2-1(d)), the PM emissions from boiler EU-07 shall in no case exceed 0.189 pounds of particulate matter per million British thermal units heat input. This limitation is based on the following equation:

$$P_t = \frac{1.09}{Q^{0.26}}$$

where:  $P_t$  - PM limit in pounds per MMBtu  
 $Q$  - total source permitted capacity in MMBtu/hr

**(Q=847 MMBtu/hr for this source)**

**D.1.2 PSD Minor Limit [326 IAC 2-2]**

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**In order to render 326 IAC 2-2 not applicable, Boiler EU-07 shall be limited as follows:**

- (a) No. 2 Fuel Oil Usage Limit**  
The input of No. 2 fuel oil and No. 2 fuel oil equivalents to the new boiler shall be limited to less than 4,929,830 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) Natural Gas Usage Limit**  
The input of natural gas and natural gas equivalents to boiler EU-07 shall be limited to 1,785 MMCF per twelve (12) consecutive month period with compliance determined at the end of each month.
- (c) SO<sub>2</sub>**
  - (1)** The sulfur content in the No. 2 fuel oil used in Boiler EU-07 shall not exceed 0.1 percent.
  - (2)** For the purposes of determining compliance, every MMcf of natural gas burned shall be equivalent to 38.3 gallons of No. 2 fuel oil based on SO<sub>2</sub> emissions, such that the total gallons of No. 2 fuel oil and No. 2 fuel oil equivalent input does not exceed the limit specified.
- (d)** The emissions of PM<sub>10</sub> while burning No. 2 fuel oil shall not exceed 3.3 pounds per 1,000 gallons of No. 2 fuel oil burned.
- (e) NO<sub>x</sub>**
  - (1)** The emissions of NO<sub>x</sub> while burning natural gas shall not exceed 36.72 lb/MMcf. The emissions of NO<sub>x</sub> while burning No. 2 fuel oil shall not exceed 12.51 lb/Kgal.
  - (2)** For the purposes of determining compliance, every 1,000 gallons of No. 2 oil shall be equivalent to 0.3407 MMcf of natural gas based on NO<sub>x</sub> emissions, such that the total MMcf of natural gas and natural gas equivalent input does not exceed the limit specified.

Compliance with these limits combined with the potential emissions of emergency generator MSB will limit SO<sub>2</sub> emissions to less than 40 tons per year, PM<sub>10</sub> emissions to less than 15 tons per year, and NO<sub>x</sub> emissions to less than 40 tons per year from the modification permitted under SSM 105-24626-00005 and will render the requirements of 326 IAC 2-2 (PSD) not applicable for SO<sub>2</sub>, PM<sub>10</sub>, and NO<sub>x</sub>.

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

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Pursuant to 326 IAC 7-1.1-2, sulfur dioxide emissions shall not exceed 0.5 pounds per million British thermal units (lb/MMBtu) of heat input from boiler EU-07 when combusting No.2 fuel oil.

**D.1.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]**

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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

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Compliance with Condition D.1.2(c) and D.1.3 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 (0.5) pounds per million Btu heat input for distillate oil combustion or does not exceed a sulfur content of 0.1 percent by:
  - (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor 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.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from boiler EU-07, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any 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.1.6 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

---

- (a) Visible emission (VE) notations of stack exhaust 002 shall be performed once per day during normal daylight operations while boiler EU-07 combusts fuel oil. A trained employee shall record whether emissions are normal or abnormal.
- (b) If abnormal emissions are observed at exhaust 002 while boiler EU-07 combusts fuel oil, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Observation of abnormal emissions that do not violate an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (c) "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.
- (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 the boilers.

### D.1.7 Continuous Emissions Monitoring [326 IAC 3-5] [326 IAC 2-2] [326 IAC 12]

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- (a) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), the Permittee is required to calibrate, certify, operate and maintain a continuous emission monitoring system (CEMS) for measuring NOx emissions rates from the boiler stack (stack 002) in accordance with 326 IAC 3-5 to demonstrate compliance with Condition D.1.2(e).

- (b) All continuous emission monitoring systems are subject to monitor system certification requirements pursuant to 326 IAC 3-5-3.
- (c) Pursuant to 326 IAC 3-5-4(a), if revisions are made to the continuous monitoring standard operating procedures (SOP), the Permittee shall submit updates to the department biennially.
- (d) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to 326 IAC 3-5, 326 IAC 10-4, 40 CFR 60, or 40 CFR 75.

#### Recordkeeping and Reporting Requirements [326 IAC 2-7-5(3) [326 IAC 2-7-19]

##### D.1.8 Record Keeping Requirements

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- (a) To document compliance with Condition D.1.2, the Permittee shall maintain records of monthly fuel usage for natural gas and No. 2 fuel oil combusted in the boiler.
- (b) To document compliance with Conditions D.1.2, D.1.3, and D.1.5, the Permittee shall maintain records in accordance with (1) through (7) below.
  - (1) Calendar dates covered in the compliance determination period;
  - (2) Actual No. 2 fuel oil and No. 2 fuel oil equivalent usage and natural gas and natural gas equivalent usage since last compliance determination period and equivalent NO<sub>x</sub> and SO<sub>2</sub> emissions.
  - (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period, the natural gas fired boiler certification does require the certification by the "Responsible Official" as defined by 326 IAC 2-7-1(34); and
  - (4) All fuel sampling and analysis data, pursuant to 326 IAC 7-2, and data collected in accordance with Condition D.1.5.

If the fuel supplier certification is used to demonstrate compliance the following, as a minimum, shall be maintained:

- (5) Fuel supplier certifications.
- (6) The name of the fuel supplier; and
- (7) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

- (c) To document compliance with Condition D.1.2(e), the Permittee shall maintain records of the emission rates of NO<sub>x</sub> in pounds per MMCF and pounds per Kgal based on CEMS data.
- (d) To document compliance with Condition D.1.6, the Permittee shall maintain records of daily visible emission notations of the stack 002 exhaust, during times when

**fuels other than natural gas are combusted. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation (e.g., the process did not operate that day).**

- (e) To document compliance with Condition D.1.7, the Permittee shall maintain records, including raw data of all monitoring data and supporting information, for a minimum of five (5) years from the date described in 326 IAC 3-5-7(a). The records shall include the information described in 326 IAC 3-5-7(b).**
- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.**

#### **D.1.9 Reporting Requirements**

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**A quarterly summary of the information to document compliance with Condition D.1.2(a) and D.1.2(b) shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. 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)]:

- (b) Two (2) coal, natural gas, No.1 or No.2 fuel oil fired boilers, identified as EU-03 and EU-04, both constructed in 1959, with a maximum design capacity of 125 MMBtu per hour heat input each (operating at a maximum capacity of 100 MMBtu per hour heat input each when combusting coal or a combination of fuels), and with a maximum design capacity of 80 MMBtu per hour heat input each when combusting natural gas and/or fuel oil, each equipped with low NOx burners for natural gas and/or fuel oil, and each with a multiclone for particulate control when combusting coal and/or fuel oil, both exhausting at stack 002.
- (c) One (1) natural gas, No.1 or No.2 fuel oil fired boiler, identified as EU-05, constructed in 1964 and modified in 1989, with a maximum design capacity of 190 MMBtu per hour heat input, equipped with low NOx burners (two natural gas fired burners at 75 MMBtu per hour heat input each) for natural gas and/or fuel oil, and a multiclone for particulate control when combusting fuel oil, exhausting to stack 002 or 003.

(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 Limitation (PM) [326 IAC 6-2-3]

Pursuant to OP 53-02-92-0081 and 0082, issued January 12, 1990, and 326 IAC 6-2-3(b)(Particulate emission limitations for sources of indirect heating: emission limitations for facilities specified in 326 IAC 6-2-1(c)), the PM emissions from EU-03, EU-04, and EU-05, shall not exceed 0.38 pounds of particulate matter per million British thermal units heat input each. This limitation is based on the following equation:

$$P_t = \frac{(C * a * h)}{(76.5 * Q^{0.75} * N^{0.25})}$$

where:  $P_t$  - PM limit in pounds per MMBtu  
C - Maximum ground level concentration  
a - Plume rise factor  
h - Stack height in feet  
Q - total source permitted capacity in MMBtu/hr = **740 MMBtu/hr**  
N - Number of stacks

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

- ...
- (ab) Pursuant to 326 IAC 7-1.1-2, sulfur dioxide emissions shall not exceed 0.5 pounds per million British thermal units (lb/MMBtu) of heat input from boiler EU-05 when combusting No.1 or No.2 fuel oil.
- (bc) Pursuant to PC (55) 1731 and OP 53-02-92-0083, issued February 15, 1989 and January 5, 1990, for EU-05, the No.2 fuel oil shall have a maximum sulfur content of five tenths percent (0.5%).

#### D.2.6 Fuel Usage Equivalency Limits

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- (a) The input of natural gas to boiler EU-05 shall be limited in total to ~~574.4~~ **870** MMCF per twelve month period, rolled on a monthly basis. For purposes of determining compliance, every ~~5.87~~ **3.84** kilo-gallons of No.1 or No.2 fuel oil combusted shall be equivalent to 1 MMCF of natural gas based on NOx emissions and 0.08% sulfur content of No.1 fuel and 0.49% sulfur content of No.2 fuel such that the total MMCF of natural gas and natural gas equivalents input does not exceed ~~574.4~~ **870** MMCF of natural gas per year;

(EU-05 No.1 fuel oil usage in kgal/yr ) ~~5.87~~ **3.84** kgal/MMCF) + (EU-05 No.2 fuel oil usage in kgal/yr ) ~~5.87~~ **3.84** kgal/MMCF) + (EU-05 natural gas usage in MMCF/yr) < ~~574.4~~ **870** MMCF/year

#### Compliance Determination Requirements

#### D.2.9 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

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...

- (ab) Pursuant to the Amendment to OP 53-02-92-0079 through 0084, issued October 19, 1990, the Permittee shall stack test boiler EU-05 for nitrogen oxide emissions every three years starting from the most recent compliant stack test. During testing, the Permittee shall combust only No.1 fuel oil.
- (bc) Compliance with Conditions D.2.1 and D.2.3 will be determined based on the testing schedule in parts (a) and (b) of this condition, utilizing the appropriate methods, or other methods as approved by the Commissioner. Testing shall be conducted in accordance with Section C- Performance Testing.

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

#### D.2.13 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

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- (a) Visible emission (VE) notations of stack exhaust 002 shall be performed once per ~~shift~~ **day** during normal daylight operations while boilers EU-03 and EU-04 combust coal and/or fuel oil, ~~and or while~~ **EU-05 combusts fuel oil. After EU-05 begins exhausting to stack 003, VE notations for EU-05 shall be performed on exhaust 003 while EU-05 combusts fuel oil.** A trained employee shall record whether emissions are normal or abnormal.
- (b) If abnormal emissions are observed at exhaust 002 while boilers EU-03 and EU-04 combust coal and/or fuel oil, ~~and or while~~ **EU-05 combusts fuel oil, or if abnormal emissions are observed at exhaust 003 while EU-05 combusts fuel oil after EU-05 begins exhausting to exhaust 003,** the Permittee shall take reasonable response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances.** Observation of abnormal emissions that do not violate an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances,** shall be considered a ~~violation of deviation~~ **from** this permit.

...

#### D.2.14 Monitoring: Multiclones [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

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- (a) The ability of the multiclones to control particulate emissions shall be monitored at least once per ~~shift~~ **day**, when their associated units are in operation, by measuring and recording the ~~total static~~ pressure drop across the collectors.
- (b) Reasonable response steps shall be taken in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to**

**Excursions or Exceedances** whenever the static pressure drop is outside of the normal operating range for the corresponding boiler steam load. A pressure drop reading that is outside normal range is not a deviation from this permit. Failure to take response steps in accordance with ~~Compliance Response Plan—Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a ~~violation of~~ **deviation from** this permit.

**D.2.15 Multiclone Failure Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]**

In the event that multiclone failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions). Failure to take response steps in accordance with Section C - ~~Compliance Response Plan—Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a ~~violation of~~ **deviation from** this permit.

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

**D.2.16 Record Keeping Requirements**

(a) Pursuant to OP 53-02-92-0081 and 0082, issued January 12, 1990, and 1265 Exemption Qualification 105-8180, issued February 24, 1997, and to document compliance with Conditions D.2.2, D.2.11 and D.2.12, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the SO<sub>2</sub> emission limits established in **Condition D.2.2**. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.

...

(b) To document compliance with Conditions D.2.4 and D.2.5, the Permittee shall maintain records of monthly average heat input (MMBtu per hour) for each boiler.

...

**SECTION D.3 FACILITY OPERATION CONDITIONS**

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

(d) One (1) coal, natural gas, No.1 or No.2 fuel oil fired boiler, identified as EU-06, constructed in 1970, with a maximum design capacity of 190 MMBtu per hour heat input when combusting coal and/or fuel oil, and 150 MMBtu per hour heat input (two natural gas fired burners rated at 75 MMBtu per hour heat input each) when combusting natural gas, equipped with low NO<sub>x</sub> burners for natural gas and/or fuel oil, a multiclone and an electrostatic precipitator or for particulate control when combusting coal and/or fuel oil, and a continuous opacity monitor for monitoring opacity, exhausting to stack 003.

(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 Particulate Matter Limitation (PM) [326 IAC 6-2-3]**

Pursuant to PC (55) 1731 issued February 15, 1989, and OP 53-02-92-0083 and 0084, issued January 5, 1990, and 326 IAC 6-2-3(d) (Particulate emission limitations for sources of indirect heating: emission limitations for facilities specified in 326 IAC 6-2-1(b)), the PM emissions from EU-06 shall not exceed 0.38 pounds of particulate matter per million British thermal units heat input. This limitation is based on the following equation:

$$P_t = \frac{(C * a * h)}{(76.5 * Q^{0.75} * N^{0.25})}$$

where: P<sub>t</sub> - PM limit in pounds per MMBtu  
C - Maximum ground level concentration  
a - Plume rise factor  
h - Stack height in feet  
Q - total source permitted capacity in MMBtu/hr = **740 MMBtu/hr**  
N - Number of stacks

...

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

#### D.3.12 Opacity Readings [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) In the event of opacity exceeding twenty-five percent (25%) average opacity for three (3) consecutive six (6) minute averaging periods, appropriate response steps shall be taken in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances** such that the cause(s) of the excursion are identified and corrected and opacity levels are brought back below twenty-five percent (25%). Examples of expected response steps include, but are not limited to, boiler loads being reduced, and ESP **transformer-rectifier (T-R)** sets being returned to service.
- (b) Opacity readings in excess of twenty-five percent (25%) but not exceeding the opacity limit for the unit are not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a ~~violation of~~ **deviation from** this permit.

#### D.3.13 Electrostatic Precipitator Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) The ability of the ESP to control particulate emissions shall be monitored once per ~~shift~~ **day**, when boiler EU-06 is in operation and combusting coal and/or fuel oil, by measuring and recording the primary and secondary voltages and the currents of the transformer-rectifier (T-R) sets.
- (b) When for any one reading, operation is outside one of the normal ranges shown below, or a range established during the most recent stack test, the Permittee shall take reasonable response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**. A voltage or current reading outside of the normal range is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a ~~violation of~~ **deviation from** this permit.
- |     |                          |             |
|-----|--------------------------|-------------|
| (1) | Primary voltage:         | 260 - 300 V |
| (2) | Secondary voltage:       | 35 - 55 kV  |
| (3) | T-R set primary current: | 50 - 75 A   |

#### D.3.14 Monitoring: Multiclones [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) The ability of the multiclones to control particulate emissions from EU-06 shall be monitored at least once per ~~shift~~ **day**, when this boiler is in operation and combusting coal and/or fuel oil, by measuring and recording the ~~total static~~ pressure drop across the collector.
- (b) Reasonable response steps shall be taken in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances** whenever the ~~static~~ pressure drop is outside of the normal operating range for the corresponding boiler steam load. A pressure drop reading that is outside normal range is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation,~~

~~Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a violation of **deviation from** this permit.

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

#### D.3.15 Record Keeping Requirements

...

- (c) To document compliance with Section C - Opacity and Conditions D.3.1, D.3.7, D.3.8, D.3.11, D.3.12, and D.3.13, the Permittee shall maintain records in accordance with (1) through (5) below. Records shall be complete and sufficient to establish compliance with the limits established in Section C - Opacity, and in Condition D.3.1. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
- (1) Data and results from the most recent stack test(s).
  - (2) All continuous monitoring data, pursuant to 326 IAC 3-5.
  - (3) The results of all visible emission (VE) notations and/or Method 9 visible emission readings taken during any periods of COM downtime for stack 003. **When the COM is down, the Permittee shall include in this record when a visible emission notation or a Method 9 visible emission reading are not taken and the reason for the lack of a visible emission notation and Method 9 reading (e.g. the process did not operate that day).**
  - (4) All ESP and multiclone parametric monitoring readings.
  - (5) Records of the results of the ESP and multiclones' inspections (including usage hours).

...

#### D.3.16 Reporting Requirements

- (c) **A quarterly summary of the information to document compliance with Conditions D.3.9(a) and D.3.10(a) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, 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.4**

## **FACILITY OPERATION CONDITIONS**

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

- (e) One (1) coal storage and handling system, with a maximum design throughput of 200 tons of coal per hour and 210,000 tons of coal per year, consisting of the following:
- (1) One (1) coal truck receiving system, consisting of an interior wet suppression system to control coal dust emissions during coal receiving, and two (2) truck hoppers.
  - (2) Four (4) enclosed belt conveyors, and one (1) enclosed bucket conveyor, with particulate emissions controlled by a fabric filter system, with four (4) dust collectors, identified as DC1 through 4, located internally at various points along the enclosed conveyor system, with all dust collectors exhausting internally.
  - (3) One (1) coal storage silo with a storage capacity of 1,000 tons of coal, with particulate emissions controlled by one (1) dust collector, identified as DC6, exhausting externally at

vent 6.

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

...

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

##### D.4.7 Visible Emissions Notations

~~(a)~~ Pursuant to Minor Source Modification 105-11356-00005, issued July 21, 2000;

- ~~(1)~~(a) Once per ~~shift~~ **day** visible emission notations of the dust collector DC6 vent exhaust shall be performed during normal daylight operations when exhausting to the atmosphere, and when the silo is receiving coal. A trained employee shall record whether emissions are normal or abnormal.
- ~~(2)~~(b) Once per ~~shift~~ **day** visible emission notations of the coal truck receiving system shall be performed during normal daylight operations when either of the two (2) truck hoppers are receiving coal. A trained employee shall record whether emissions are normal or abnormal.
- ~~(3)~~(c) 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.
- ~~(4)~~(d) 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.
- ~~(5)~~(e) 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.
- ~~(b)~~(f) If any visible emissions of dust are observed from the coal storage and handling system, the Permittee shall take reasonable response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**. Observation of visible emissions that do not violate 326 IAC 6-4 (Fugitive Dust Emissions) or an applicable opacity limit is not a deviation from this permit.
- ~~(e)~~(g) If abnormal emissions are observed from the coal storage and handling system, the Permittee shall take reasonable response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**. Observation of abnormal emissions that do not violate 326 IAC 6-4 (Fugitive Dust Emissions) or an applicable opacity limit is not a deviation from this permit.
- ~~(d)~~(h) ~~The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an~~ **If abnormal emissions is 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 - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a ~~violation of~~ **deviation from** this permit.

##### D.4.8 Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) By calendar, quarterly inspections shall be performed to verify the placement, integrity and particle loading of the filter, DC6. The ~~Compliance Response Plan~~ **Response to Excursions or Exceedances** shall be followed whenever a condition exists which should

result in a response step. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **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.4.11 Record Keeping Requirements

~~(a) Pursuant to Minor Source Modification 105-11356-00005, issued July 21, 2000;~~

- ~~(1)(a)~~ To document compliance with Condition D.4.5, the Permittee shall maintain records of visible emission notations of the dust collector vent for DC6, and of the coal truck receiving system at each time when coal is being received by the silo and either of the truck hoppers, respectively.
- ~~(2)(b)~~ All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.
- ~~(b)(c)~~ To document compliance with Condition D.4.6, the Permittee shall maintain a log of quarterly inspections ~~and these additional inspections prescribed by the Preventive Maintenance Plan.~~
- (d) Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.

### SECTION D.5 FACILITY OPERATION CONDITIONS - Insignificant Operations

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

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour:
  - (1) Twenty-two (22) boilers constructed before 1972, with a combined total heat input of 29.130 MMBtu per hour.
  - (2) One (1) boiler constructed in 1977, with a heat input of 0.60 MMBtu per hour.
  - (3) One (1) boiler constructed in 1981, with a heat input of 0.110 MMBtu per hour.
  - (4) Fifty-seven (57) boilers constructed after 1983, with a combined heat input of 135.39 MMBtu per hour.
- (b) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.
- (c) **Oil fired emergency generators not exceeding 1,600 horsepower:**
  - (1) **One (1) emergency generator at MSB 1 rated at 1200 horsepower.**

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

## SECTION E.1 FACILITY OPERATION CONDITIONS

### Emission Unit Description [326 IAC 2-7-5(15)]

- (a) One (1) natural gas or low-sulfur No. 2 fuel oil fired boiler, identified as EU-07, approved for construction in 2007, with a maximum design capacity of 217 MMBtu per hour when combusting natural gas and 208 MMBtu per hour when combusting fuel oil, and equipped with low NOx burners and induced flue gas recirculation for NOx control, exhausting to stack 002. Under 40 CFR 60, Subpart Db this is a new affected source.

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

### New Source Performance Standards (NSPS) Requirements: [326 IAC 2-7-5(1)]

#### E.1.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]

- (a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60 Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1 for the boiler EU-07, except as otherwise specified in 40 CFR Part 60, Subpart Db.
- (b) Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports 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

#### E.1.2 Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units Requirements [40 CFR Part 60, Subpart Db] [326 IAC 12]

Pursuant to 40 CFR Part 60, Subpart Db, the Permittee shall comply with the provisions of Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units, which are incorporated by reference as 326 IAC 12, for the boiler EU-07 as specified as follows:

#### Subpart Db—Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units

Source: 72 FR 32742, June 13, 2007, unless otherwise noted.

##### § 60.40b Applicability and delegation of authority.

(a) The affected facility to which this subpart applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 29 MW (100 million Btu/hour).

(j) Any affected facility meeting the applicability requirements under paragraph (a) of this section and commencing construction, modification, or reconstruction after June 19, 1986 is not subject to subpart D (Standards of Performance for Fossil-Fuel-Fired Steam Generators, §60.40).

##### § 60.41b Definitions.

As used in this subpart, all terms not defined herein shall have the meaning given them in the Clean Air Act and in subpart A of this part.

**Annual capacity factor** means the ratio between the actual heat input to a steam generating unit from the fuels listed in §60.42b(a), §60.43b(a), or §60.44b(a), as applicable, during a calendar year and the potential heat input to the steam generating unit had it been operated for 8,760 hours during a calendar year at the maximum steady state design heat input capacity. In the case of steam generating units that are rented or leased, the actual heat input shall be determined based on the combined heat input from all operations of the affected facility in a calendar year.

**Byproduct/waste** means any liquid or gaseous substance produced at chemical manufacturing plants, petroleum refineries, or pulp and paper mills (except natural gas, distillate oil, or residual oil) and combusted in a steam generating unit for heat recovery or for disposal. Gaseous substances with carbon dioxide (CO<sub>2</sub>) levels greater than 50 percent or carbon monoxide levels greater than 10 percent are not byproduct/waste for the purpose of this subpart.

**Chemical manufacturing plants** mean industrial plants that are classified by the Department of Commerce under Standard Industrial Classification (SIC) Code 28.

**Coal** means all solid fuels classified as anthracite, bituminous, subbituminous, or lignite by the American Society of Testing and Materials in ASTM D388 (incorporated by reference, see §60.17), coal refuse, and petroleum coke. Coal-derived synthetic fuels, including but not limited to solvent refined coal, gasified coal, coal-oil mixtures, coke oven gas, and coal-water mixtures, are also included in this definition for the purposes of this subpart.

**Coal refuse** means any byproduct of coal mining or coal cleaning operations with an ash content greater than 50 percent, by weight, and a heating value less than 13,900 kJ/kg (6,000 Btu/lb) on a dry basis.

**Cogeneration**, also known as combined heat and power, means a facility that simultaneously produces both electric (or mechanical) and useful thermal energy from the same primary energy source.

**Coke oven gas** means the volatile constituents generated in the gaseous exhaust during the carbonization of bituminous coal to form coke.

**Combined cycle system** means a system in which a separate source, such as a gas turbine, internal combustion engine, kiln, etc., provides exhaust gas to a steam generating unit.

**Conventional technology** means wet flue gas desulfurization (FGD) technology, dry FGD technology, atmospheric fluidized bed combustion technology, and oil hydrodesulfurization technology.

**Distillate oil** means fuel oils that contain 0.05 weight percent nitrogen or less and comply with the specifications for fuel oil numbers 1 and 2, as defined by the American Society of Testing and Materials in ASTM D396 (incorporated by reference, see §60.17).

**Dry flue gas desulfurization technology** means a SO<sub>2</sub> control system that is located downstream of the steam generating unit and removes sulfur oxides from the combustion gases of the steam generating unit by contacting the combustion gases with an alkaline reagent and water, whether introduced separately or as a premixed slurry or solution and forming a dry powder material. This definition includes devices where the dry powder material is subsequently converted to another form. Alkaline slurries or solutions used in dry flue gas desulfurization technology include but are not limited to lime and sodium.

**Duct burner** means a device that combusts fuel and that is placed in the exhaust duct from another source, such as a stationary gas turbine, internal combustion engine, kiln, etc., to allow the firing of additional fuel to heat the exhaust gases before the exhaust gases enter a steam generating unit.

**Emerging technology** means any SO<sub>2</sub> control system that is not defined as a conventional technology under this section, and for which the owner or operator of the facility has applied to the Administrator and received approval to operate as an emerging technology under §60.49b(a)(4).

***Federally enforceable*** means all limitations and conditions that are enforceable by the Administrator, including the requirements of 40 CFR parts 60 and 61, requirements within any applicable State Implementation Plan, and any permit requirements established under 40 CFR 52.21 or under 40 CFR 51.18 and 51.24.

***Fluidized bed combustion technology*** means combustion of fuel in a bed or series of beds (including but not limited to bubbling bed units and circulating bed units) of limestone aggregate (or other sorbent materials) in which these materials are forced upward by the flow of combustion air and the gaseous products of combustion.

***Fuel pretreatment*** means a process that removes a portion of the sulfur in a fuel before combustion of the fuel in a steam generating unit.

***Full capacity*** means operation of the steam generating unit at 90 percent or more of the maximum steady-state design heat input capacity.

***Gaseous fuel*** means any fuel that is present as a gas at ISO conditions.

***Gross output*** means the gross useful work performed by the steam generated. For units generating only electricity, the gross useful work performed is the gross electrical output from the turbine/generator set. For cogeneration units, the gross useful work performed is the gross electrical or mechanical output plus 75 percent of the useful thermal output measured relative to ISO conditions that is not used to generate additional electrical or mechanical output (i.e., steam delivered to an industrial process).

***Heat input*** means heat derived from combustion of fuel in a steam generating unit and does not include the heat derived from preheated combustion air, recirculated flue gases, or exhaust gases from other sources, such as gas turbines, internal combustion engines, kilns, etc.

***Heat release rate*** means the steam generating unit design heat input capacity (in MW or Btu/hr) divided by the furnace volume (in cubic meters or cubic feet); the furnace volume is that volume bounded by the front furnace wall where the burner is located, the furnace side waterwall, and extending to the level just below or in front of the first row of convection pass tubes.

***Heat transfer medium*** means any material that is used to transfer heat from one point to another point.

***High heat release rate*** means a heat release rate greater than 730,000 J/sec-m<sup>3</sup> (70,000 Btu/hr-ft<sup>3</sup>).

***ISO Conditions*** means a temperature of 288 Kelvin, a relative humidity of 60 percent, and a pressure of 101.3 kilopascals.

***Lignite*** means a type of coal classified as lignite A or lignite B by the American Society of Testing and Materials in ASTM D388 (incorporated by reference, see §60.17).

***Low heat release rate*** means a heat release rate of 730,000 J/sec-m<sup>3</sup> (70,000 Btu/hr-ft<sup>3</sup>) or less.

***Mass-feed stoker steam generating unit*** means a steam generating unit where solid fuel is introduced directly into a retort or is fed directly onto a grate where it is combusted.

***Maximum heat input capacity*** means the ability of a steam generating unit to combust a stated maximum amount of fuel on a steady state basis, as determined by the physical design and characteristics of the steam generating unit.

***Municipal-type solid waste*** means refuse, more than 50 percent of which is waste consisting of a mixture of paper, wood, yard wastes, food wastes, plastics, leather, rubber, and other combustible materials, and noncombustible materials such as glass and rock.

***Natural gas*** means: (1) A naturally occurring mixture of hydrocarbon and nonhydrocarbon gases found in geologic formations beneath the earth's surface, of which the principal constituent is methane; or (2) liquefied petroleum gas, as defined by the American Society for Testing and Materials in ASTM D1835 (incorporated by reference, see §60.17).

***Noncontinental area*** means the State of Hawaii, the Virgin Islands, Guam, American Samoa, the Commonwealth of Puerto Rico, or the Northern Mariana Islands.

***Oil*** means crude oil or petroleum or a liquid fuel derived from crude oil or petroleum, including distillate and residual oil.

***Petroleum refinery*** means industrial plants as classified by the Department of Commerce under Standard Industrial Classification (SIC) Code 29.

***Potential sulfur dioxide emission rate*** means the theoretical SO<sub>2</sub> emissions (nanograms per joule (ng/J) or lb/MMBtu heat input) that would result from combusting fuel in an uncleaned state and without using emission control systems.

***Process heater*** means a device that is primarily used to heat a material to initiate or promote a chemical reaction in which the material participates as a reactant or catalyst.

***Pulp and paper mills*** means industrial plants that are classified by the Department of Commerce under North American Industry Classification System (NAICS) Code 322 or Standard Industrial Classification (SIC) Code 26.

***Pulverized coal-fired steam generating unit*** means a steam generating unit in which pulverized coal is introduced into an air stream that carries the coal to the combustion chamber of the steam generating unit where it is fired in suspension. This includes both conventional pulverized coal-fired and micropulverized coal-fired steam generating units. Residual oil means crude oil, fuel oil numbers 1 and 2 that have a nitrogen content greater than 0.05 weight percent, and all fuel oil numbers 4, 5 and 6, as defined by the American Society of Testing and Materials in ASTM D396 (incorporated by reference, see §60.17).

***Spreader stoker steam generating unit*** means a steam generating unit in which solid fuel is introduced to the combustion zone by a mechanism that throws the fuel onto a grate from above. Combustion takes place both in suspension and on the grate.

***Steam generating unit*** means a device that combusts any fuel or byproduct/waste and produces steam or heats water or any other heat transfer medium. This term includes any municipal-type solid waste incinerator with a heat recovery steam generating unit or any steam generating unit that combusts fuel and is part of a cogeneration system or a combined cycle system. This term does not include process heaters as they are defined in this subpart.

***Steam generating unit operating day*** means a 24-hour period between 12:00 midnight and the following midnight during which any fuel is combusted at any time in the steam generating unit. It is not necessary for fuel to be combusted continuously for the entire 24-hour period.

***Very low sulfur oil*** means for units constructed, reconstructed, or modified on or before February 28, 2005, an oil that contains no more than 0.5 weight percent sulfur or that, when combusted without SO<sub>2</sub> emission control, has a SO<sub>2</sub> emission rate equal to or less than 215 ng/J (0.5 lb/MMBtu) heat input. For units constructed, reconstructed, or modified after February 28, 2005, ***very low sulfur oil*** means an oil that contains no more than 0.3 weight percent sulfur or that, when combusted without SO<sub>2</sub> emission control, has a SO<sub>2</sub> emission rate equal to or less than 140 ng/J (0.32 lb/MMBtu) heat input.

***Wet flue gas desulfurization technology*** means a SO<sub>2</sub> control system that is located downstream of the steam generating unit and removes sulfur oxides from the combustion gases of the steam generating unit by contacting the combustion gas with an alkaline slurry or solution and forming a liquid material. This definition applies to devices where the aqueous liquid material product of this contact is subsequently converted to other forms. Alkaline reagents used in wet flue gas desulfurization technology include, but are not limited to, lime, limestone, and sodium.

***Wet scrubber system*** means any emission control device that mixes an aqueous stream or slurry with the exhaust gases from a steam generating unit to control emissions of PM or SO<sub>2</sub>.

***Wood*** means wood, wood residue, bark, or any derivative fuel or residue thereof, in any form, including, but not limited to, sawdust, sanderdust, wood chips, scraps, slabs, millings, shavings, and processed pellets made from wood or other forest residues.

**§ 60.42b Standard for sulfur dioxide.**

**(e) Except as provided in paragraph (f) of this section, compliance with the emission limits, fuel oil sulfur limits, and/or percent reduction requirements under this section are determined on a 30-day rolling average basis.**

**(j) Percent reduction requirements are not applicable to affected facilities combusting only very low sulfur oil. The owner or operator of an affected facility combusting very low sulfur oil shall demonstrate that the oil meets the definition of very low sulfur oil by: (1) Following the performance testing procedures as described in §60.45b(c) or §60.45b(d), and following the monitoring procedures as described in §60.47b(a) or §60.47b(b) to determine SO<sub>2</sub>emission rate or fuel oil sulfur content; or (2) maintaining fuel records as described in §60.49b(r).**

**(k)(1) Except as provided in paragraphs (k)(2), (k)(3), and (k)(4) of this section, on and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that commences construction, reconstruction, or modification after February 28, 2005, and that combusts coal, oil, natural gas, a mixture of these fuels, or a mixture of these fuels with any other fuels shall cause to be discharged into the atmosphere any gases that contain SO<sub>2</sub>in excess of 87 ng/J (0.20 lb/MMBtu) heat input or 8 percent (0.08) of the potential SO<sub>2</sub>emission rate (92 percent reduction) and 520 ng/J (1.2 lb/MMBtu) heat input.**

**(2) Units firing only very low sulfur oil and/or a mixture of gaseous fuels with a potential SO<sub>2</sub>emission rate of 140 ng/J (0.32 lb/MMBtu) heat input or less are exempt from the SO<sub>2</sub>emissions limit in paragraph 60.42b(k)(1).**

**§ 60.43b Standard for particulate matter.**

**(f) On and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that combusts coal, oil, wood, or mixtures of these fuels with any other fuels shall cause to be discharged into the atmosphere any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.**

**(g) The PM and opacity standards apply at all times, except during periods of startup, shutdown or malfunction.**

**(h)(5) On and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, an owner or operator of an affected facility that commences construction, reconstruction, or modification after February 28, 2005, and that combusts only oil that contains no more than 0.3 weight percent sulfur, coke oven gas, a mixture of these fuels, or either fuel (or a mixture of these fuels) in combination with other fuels not subject to a PM standard under §60.43b and not using a post-combustion technology (except a wet scrubber) to reduce SO<sub>2</sub>or PM emissions is not subject to the PM limits under §60.43b(h)(1).**

**§ 60.44b Standard for nitrogen oxides.**

**(a) Except as provided under paragraphs (k) and (l) of this section, on and after the date on which the initial performance test is completed or is required to be completed under §60.8 of this part, whichever date comes first, no owner or operator of an affected facility that is subject to the provisions of this section and that combusts only coal, oil, or natural gas shall cause to be discharged into the atmosphere from that affected facility any gases that contain nitrogen oxides (expressed as NO<sub>2</sub>) in excess of the following emission limits:**

Fuel/Steam generating unit type	Nitrogen oxide emission limits ng/J (lb/million Btu) (expressed as NO <sub>2</sub> ) heat input
<b>(1) Natural gas and distillate oil, except (4):</b>	
(i) Low heat release rate	43 (0.10)
(ii) High heat release rate	86 (0.20)
<b>(2) Residual oil:</b>	
(i) Low heat release rate	130 (0.30)
(ii) High heat release rate	170 (0.40)
<b>(3) Coal:</b>	
(i) Mass-feed stoker	210 (0.50)
(ii) Spreader stoker and fluidized bed combustion	260 (0.60)
(iii) Pulverized coal	300 (0.70)
(iv) Lignite, except (v)	260 (0.60)
(v) Lignite mined in North Dakota, South Dakota, or Montana and combusted in a slag tap furnace	340 (0.80)
(vi) Coal-derived synthetic fuels	210 (0.50)
<b>(4) Duct burner used in a combined cycle system:</b>	
(i) Natural gas and distillate oil	86 (0.20)
(ii) Residual oil	170 (0.40)

**(h) For purposes of paragraph (i) of this section, the nitrogen oxide standards under this section apply at all times including periods of startup, shutdown, or malfunction.**

**(i) Except as provided under paragraph (j) of this section, compliance with the emission limits under this section is determined on a 30-day rolling average basis.**

**(l) On and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that commenced construction or reconstruction after July 9, 1997 shall cause to be discharged into the atmosphere from that affected facility any gases that contain NO<sub>x</sub>(expressed as NO<sub>2</sub>) in excess of the following limits:**

**(1) If the affected facility combusts coal, oil, or natural gas, or a mixture of these fuels, or with any other fuels: A limit of 86 ng/J (0.20 lb/MMBtu) heat input unless the affected facility has an annual capacity factor for coal, oil, and natural gas of 10 percent (0.10) or less and is subject to a federally enforceable requirement that limits operation of the facility to an annual capacity factor of 10 percent (0.10) or less for coal, oil, and natural gas; or**

**§ 60.45b Compliance and performance test methods and procedures for sulfur dioxide.**

**(j) The owner or operator of an affected facility that combusts very low sulfur oil is not subject to the compliance and performance testing requirements of this section if the owner or operator obtains fuel receipts as described in §60.49b(r).**

**(k) Units that burn only oil that contains no more than 0.3 weight percent sulfur or fuels with potential sulfur dioxide emission rates of 140 ng/J (0.32 lb/MMBtu) heat input or less may demonstrate compliance by maintaining records of fuel supplier certifications of sulfur content of the fuels burned.**

**§ 60.46b Compliance and performance test methods and procedures for particulate matter and nitrogen oxides.**

**(a) The PM emission standards and opacity limits under §60.43b apply at all times except during periods of startup, shutdown, or malfunction. The NO<sub>x</sub> emission standards under §60.44b apply at all times.**

**(c) Compliance with the NO<sub>x</sub> emission standards under §60.44b shall be determined through performance testing under paragraph (e) or (f), or under paragraphs (g) and (h) of this section, as applicable.**

**(e) To determine compliance with the emission limits for NO<sub>x</sub> required under §60.44b, the owner or operator of an affected facility shall conduct the performance test as required under §60.8 using the continuous system for monitoring NO<sub>x</sub> under §60.48(b).**

**(1) For the initial compliance test, NO<sub>x</sub> from the steam generating unit are monitored for 30 successive steam generating unit operating days and the 30-day average emission rate is used to determine compliance with the NO<sub>x</sub> emission standards under §60.44b. The 30-day average emission rate is calculated as the average of all hourly emissions data recorded by the monitoring system during the 30-day test period.**

**(4) Following the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, the owner or operator of an affected facility that has a heat input capacity of 73 MW (250 MMBtu/hr) or less and that combusts natural gas, distillate oil, or residual oil having a nitrogen content of 0.30 weight percent or less shall upon request determine compliance with the NO<sub>x</sub> standards under §60.44b through the use of a 30-day performance test. During periods when performance tests are not requested, NO<sub>x</sub> emissions data collected pursuant to §60.48b(g)(1) or §60.48b(g)(2) are used to calculate a 30-day rolling average emission rate on a daily basis and used to prepare excess emission reports, but will not be used to determine compliance with the NO<sub>x</sub> emission standards. A new 30-day rolling average emission rate is calculated each steam generating unit operating day as the average of all of the hourly NO<sub>x</sub> emission data for the preceding 30 steam generating unit operating days.**

**(i) Units burning only oil that contains no more than 0.3 weight percent sulfur or liquid or gaseous fuels with a potential sulfur dioxide emission rates of 140 ng/J (0.32 lb/MMBtu) heat input or less may demonstrate compliance by maintaining fuel supplier certifications of the sulfur content of the fuels burned.**

**§ 60.47b Emission monitoring for sulfur dioxide.**

**(f) The owner or operator of an affected facility that combusts very low sulfur oil is not subject to the emission monitoring requirements of this section if the owner or operator obtains fuel receipts as described in §60.49b(r).**

**(g) Units burning any fuel with a potential sulfur dioxide emission rate of 140 ng/J (0.32 lb/MMBtu) heat input or less are not required to conduct emissions monitoring if they maintain fuel supplier certifications of the sulfur content of the fuels burned.**

**§ 60.48b Emission monitoring for particulate matter and nitrogen oxides**

**(a) The particulate matter emission standards and opacity limits under §60.43b apply at all times except during periods of startup, shutdown, or malfunction, and as specified in paragraphs (i) and (j) of this section. The nitrogen oxides emission standards under §60.44b apply at all times.**

**(b) Except as provided under paragraphs (g), (h), and (i) of this section, the owner or operator of an affected facility subject to a NO<sub>x</sub> standard under §60.44b shall comply with either paragraphs (b)(1) or (b)(2) of this section.**

**(1) Install, calibrate, maintain, and operate a continuous monitoring system, and record the output of the system, for measuring nitrogen oxides emissions discharged to the atmosphere; or**

**(c) The CEMS required under paragraph (b) of this section shall be operated and data recorded during all periods of operation of the affected facility except for CEMS breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.**

**(d) The 1-hour average nitrogen oxides emission rates measured by the continuous nitrogen oxides monitor required by paragraph (b) of this section and required under §60.13(h) shall be expressed in ng/J or lb/MMBtu heat input and shall be used to calculate the average emission rates under §60.44b. The 1-hour averages shall be calculated using the data points required under §60.13(h)(2).**

**(e) The procedures under §60.13 shall be followed for installation, evaluation, and operation of the continuous monitoring systems.**

**(1) For affected facilities combusting coal, wood or municipal-type solid waste, the span value for a continuous monitoring system for measuring opacity shall be between 60 and 80 percent.**

**(2) For affected facilities combusting coal, oil, or natural gas, the span value for nitrogen oxides is determined as follows:**

<b>Fuel</b>	<b>Span values for nitrogen oxides (PPM)</b>
<b>Natural gas</b>	<b>500</b>
<b>Oil</b>	<b>500</b>
<b>Coal</b>	<b>1,000</b>
<b>Mixtures</b>	<b><math>500(x+y)+1,000z</math></b>

where:

x is the fraction of total heat input derived from natural gas,

y is the fraction of total heat input derived from oil, and

z is the fraction of total heat input derived from coal.

**(3) All span values computed under paragraph (e)(2) of this section for combusting mixtures of regulated fuels are rounded to the nearest 500 ppm.**

**(f) When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7, Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.**

**(j) Units that burn only oil that contains no more than 0.3 weight percent sulfur or liquid or gaseous fuels with potential sulfur dioxide emission rates of 140 ng/J (0.32 lb/MMBtu) heat input or less are not required to conduct PM emissions monitoring if they maintain fuel supplier certifications of the sulfur content of the fuels burned.**

**§ 60.49b Reporting and recordkeeping requirements.**

**(a) The owner or operator of each affected facility shall submit notification of the date of initial startup, as provided by §60.7. This notification shall include:**

**(1) The design heat input capacity of the affected facility and identification of the fuels to be combusted in the affected facility,**

**(2) If applicable, a copy of any Federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under §§60.42b(d)(1), 60.43b(a)(2), (a)(3)(iii), (c)(2)(ii), (d)(2)(iii), 60.44b(c), (d), (e), (i), (j), (k), 60.45b(d), (g), 60.46b(h), or 60.48b(i),**

**(3) The annual capacity factor at which the owner or operator anticipates operating the facility based on all fuels fired and based on each individual fuel fired,**

**(b) The owner or operator of each affected facility subject to the sulfur dioxide, particulate matter, and/or nitrogen oxides emission limits under §§60.42b, 60.43b, and 60.44b shall submit to the Administrator the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in appendix B. The owner or operator of each affected facility described in §60.44b(j) or §60.44b(k) shall submit to the Administrator the maximum heat input capacity data from the demonstration of the maximum heat input capacity of the affected facility.**

**(d) The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.**

**(g) Except as provided under paragraph (p) of this section, the owner or operator of an affected facility subject to the nitrogen oxides standards under §60.44b shall maintain records of the following information for each steam generating unit operating day:**

**(1) Calendar date.**

**(2) The average hourly nitrogen oxides emission rates (expressed as NO<sub>2</sub>) (ng/J or lb/million Btu heat input) measured or predicted.**

**(3) The 30-day average nitrogen oxides emission rates (ng/J or lb/million Btu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days.**

**(4) Identification of the steam generating unit operating days when the calculated 30-day average nitrogen oxides emission rates are in excess of the nitrogen oxides emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken.**

**(5) Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken.**

**(6) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data.**

**(7) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted.**

**(8) Identification of the times when the pollutant concentration exceeded full span of the continuous monitoring system.**

**(9) Description of any modifications to the continuous monitoring system that could affect the ability of the continuous monitoring system to comply with Performance Specification 2 or 3.**

**(10) Results of daily CEMS drift tests and quarterly accuracy assessments as required under appendix F, Procedure 1.**

**(h) The owner or operator of any affected facility in any category listed in paragraphs (h) (1) or (2) of this section is required to submit excess emission reports for any excess emissions which occurred during the reporting period.**

**(1) Any affected facility subject to the opacity standards under §60.43b(e) or to the operating parameter monitoring requirements under §60.13(i)(1).**

**(2) Any affected facility that is subject to the nitrogen oxides standard of §60.44b, and that**

**(i) Combusts natural gas, distillate oil, or residual oil with a nitrogen content of 0.3 weight percent or less, or**

**(ii) Has a heat input capacity of 73 MW (250 million Btu/hour) or less and is required to monitor nitrogen oxides emissions on a continuous basis under §60.48b(g)(1) or steam generating unit operating conditions under §60.48b(g)(2).**

**(i) The owner or operator of any affected facility subject to the continuous monitoring requirements for nitrogen oxides under §60.48(b) shall submit reports containing the information recorded under paragraph (g) of this section.**

**(o) All records required under this section shall be maintained by the owner or operator of the affected facility for a period of 2 years following the date of such record.**

**(r) The owner or operator of an affected facility who elects to use the fuel based compliance alternatives in §60.42b or §60.43b shall either:**

**(1) The owner or operator of an affected facility who elects to demonstrate that the affected facility combusts only very low sulfur oil under §60.42b(j)(2) or §60.42b(k)(2) shall obtain and maintain at the affected facility fuel receipts from the fuel supplier that certify that the oil meets the definition of distillate oil as defined in §60.41b and the applicable sulfur limit. For the purposes of this section, the distillate oil need not meet the fuel nitrogen content specification in the definition of distillate oil. Reports shall be submitted to the Administrator certifying that only very low sulfur oil meeting this definition and/or pipeline quality natural gas was combusted in the affected facility during the reporting period; or**

**(2) The owner or operator of an affected facility who elects to demonstrate compliance based on fuel analysis in §60.42b or §60.43b shall develop and submit a site-specific fuel analysis plan to the Administrator for review and approval no later than 60 days before the date you intend to demonstrate compliance. Each fuel analysis plan shall include a minimum initial requirement of weekly testing and each analysis report shall contain, at a minimum, the following information:**

**(i) The potential sulfur emissions rate of the representative fuel mixture in ng/J heat input;**

**(ii) The method used to determine the potential sulfur emissions rate of each constituent of the mixture. For distillate oil and natural gas a fuel receipt or tariff sheet is acceptable;**

**(iii) The ratio of different fuels in the mixture; and**

**(iv) The owner or operator can petition the Administrator to approve monthly or quarterly sampling in place of weekly sampling.**

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Fax: 317-233-~~5967~~ 6865**

**PART 70 OPERATING PERMIT  
EMERGENCY OCCURRENCE REPORT**

Source Name: Indiana University  
Source Address: ~~700~~ **820** North Walnut Grove, Bloomington, Indiana 47405-2206  
Mailing Address: ~~Same~~ **1514 East 3<sup>rd</sup> Street, Bloomington, Indiana 47405-2206**  
Part 70 Permit No.: T105-6642-00005

**This form consists of 2 pages**

**Page 1 of 2**

- 9** This is an emergency as defined in 326 IAC 2-7-1(12)
- X The Permittee must notify the Office of Air Quality (OAQ), within four **(4)** business hours (1-800-451-6027 or 317-233-~~5674~~ **0178**, ask for Compliance Section); and
  - X The Permittee must submit notice in writing or by facsimile within two **(2)** working days (Facsimile Number: 317-233-~~5967~~ **6865**), and follow the other requirements of 326 IAC 2-7-16.

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

**Part 70 Quarterly Report for Boiler EU-05**

Source Name: Indiana University  
 Source Address: 700 ~~820~~ North Walnut Grove, Bloomington, Indiana 47405-2206  
 Mailing Address: 1514 East 3<sup>rd</sup> Street, Bloomington, Indiana 47405-2206  
 Part 70 Permit No.: T105-6642-00005  
 Facility: Boiler EU-05  
 Parameters: fuel oil usage & analysis, natural gas usage  
 Limits: Fuel equivalencies for NOx emissions- every ~~5.87~~ **3.84** kgals of No.1 or No.2 fuel oil combusted shall each be equivalent to 1 MMCF of natural gas; (EU-05 No.1 fuel oil usage in kgal/yr ) ~~5.87~~ **3.84** kgal/MMCF) + (EU-05 No.2 fuel oil usage in kgal/yr ) ~~5.87~~ **3.84** kgal/MMCF) + (EU-05 natural gas usage in MMCF/yr) < ~~574.4~~ **870** MMCF/year

Fuel equivalencies for SO<sub>2</sub> emissions- every 0.053 kgals of No.1 fuel oil burned shall be equivalent to 1 MMCF of natural gas, and every 0.009 kgals of No.2 fuel oil combusted shall be equivalent to 1 MMCF of natural gas; (EU-05 No.1 fuel oil usage in kgal/yr ) 0.053 kgal/MMCF) + (EU-05 No.2 fuel oil usage in kgal/yr ) 0.009 kgal/MMCF) + (EU-05 natural gas usage in MMCF/yr) < 133,333.33 MMCF/year

**QUARTER:** \_\_\_\_\_ **YEAR:** \_\_\_\_\_

				Column 1	Column 2	Column 1 + Column 2
				This Month	Previous 11 Months	12 Month Total
Month	<b>A</b> No.1 Oil Usage per month (kgals)	<b>B</b> No.2 Oil Usage per month (kgals)	<b>C</b> Nat. Gas Usage per month (MMCF)	<b>NOx</b> (A/ <del>5.87</del> <b>3.84</b> )+(B/ <del>5.87</del> <b>3.84</b> )+C < <del>574.4</del> <b>870</b> MMCF/yr	<b>NOx</b>	<b>NOx</b>

				<b>SO<sub>2</sub></b> (A/0.053)+(B/0.009)+C < 133,333.33 MMCF/yr	<b>SO<sub>2</sub></b>	<b>SO<sub>2</sub></b>
<b># of Deviations</b>						

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

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

Attach a signed certification to complete this report.

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

**PART 70 Quarterly Report**

**Source Name:** Indiana University  
**Source Address:** 820 North Walnut Grove, Bloomington, Indiana 47405-2206  
**Mailing Address:** 1514 East 3<sup>rd</sup> Street, Bloomington, Indiana 47405-2206  
**Part 70 Permit No.:** T105-6642-00005  
**Facility:** Boiler EU07  
**Parameter:** No. 2 fuel oil and No. 2 fuel oil equivalents  
**Limit:** 4,929,830 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month. For the purposes of determining compliance, every MMcf of natural gas burned shall be equivalent to 38.3 gallons of No. 2 fuel oil based on SO<sub>2</sub> emissions, such that the total gallons of No. 2 fuel oil and No. 2 fuel oil equivalent input does not exceed the limit specified.

**QUARTER:** \_\_\_\_\_ **YEAR:** \_\_\_\_\_

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

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

Attach a signed certification to complete this report.

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

**PART 70 Quarterly Report**

**Source Name:** Indiana University  
**Source Address:** 820 North Walnut Grove, Bloomington, Indiana 47405-2206  
**Mailing Address:** 1514 East 3<sup>rd</sup> Street, Bloomington, Indiana 47405-2206  
**Part 70 Permit No.:** T105-6642-00005  
**Facility:** Boiler EU07  
**Parameter:** Natural Gas and Natural Gas equivalents  
**Limit:** 1,785 MMCF per twelve (12) consecutive month period with compliance determined at the end of each month. For the purposes of determining compliance, every 1,000 gallons of No. 2 fuel oil burned shall be equivalent to 0.3407 MMcf of natural gas based on NOx emissions, such that the total MMcf of natural gas and natural gas equivalent input does not exceed the limit specified.

QUARTER: \_\_\_\_\_ YEAR: \_\_\_\_\_

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

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

Attach a signed certification to complete this report.



### **Conclusion and Recommendation**

This proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 105-24626-00005 and Significant Permit Modification No.:105-24777-00005. The staff recommends to the Commissioner that this Part 70 Significant Source Modification and Significant Permit Modification be approved.

**Appendix A: Emission Calculations**  
**Fuel Oil Combustion**

**Company Name:** Indiana University  
**Address:** 820 North Walnut Grove, Bloomington, IN 47405-2206  
**Title V SSM:** 105-24626-00005  
**Title V SPM:** 105-24777-00005  
**Plant ID:** 105-00005  
**Reviewer:** ERG/KHB  
**Date:** June 19, 2007

**No. 2 Fuel Oil Combustion**

Heat Input Capacity MMBtu/hour 208.0	Potential Throughput Kgal/year 13,108
--	---

**Pollutant**

Emission Factor	* PM 2 (lb/Kgal)	* PM10 3.3 (lb/Kgal)	SO <sub>2</sub> 15.7 (lb/Kgal)	** NO <sub>x</sub> 0.090 (lb/MMBtu)	VOC 0.2 (lb/Kgal)	CO 5 (lb/Kgal)
Potential To Emit (tons/year)	13.11	21.63	102.90	81.99	1.31	32.77

**HAPs - Organics**

Fuel Oil Emission Factor (lb/Kgal)	Benzene 2.1E-04	Dichlorobenzene --	Formaldehyde 3.3E-02	Hexane --	Toluene 6.2E-03	Combined Organic HAP
Fuel Oil Potential To Emit (tons/year)	1.40E-03	--	2.2E-01	--	4.06E-02	2.58E-01

**HAPs - Metals**

Fuel Oil Emission Factor (lb/MMBtu)	Lead 9.0E-06	Cadmium 3.0E-06	Chromium 3.0E-06	Manganese 6.0E-06	Nickel 3.0E-06	Combined Metal HAP
Fuel Oil Potential To Emit (tons/year)	8.20E-03	2.73E-03	2.73E-03	5.47E-03	2.73E-03	2.19E-02

Heat Input Capacity for fuel oil combustion is from application.

\*PM10 emission factor is filterable and condensable particulate combined. PM emission factor is just filterable particulate.

\*\*Emission factor for NO<sub>x</sub>: Based on performance guarantees from Nebraska Boiler the manufacturer of the boiler.

No. 2 Fuel Oil will be Limited to no more than 0.1% sulfur content

All other Emission factors are from AP-42:

No. 2 fuel oil: Chapter 1.3, Tables 1.3-1, 1.3-2, and 1.3-6, SCC# 1-01-005-01, 1-02-005-01, and 1-03-005-01 (September, 1998)

KGAL = 1,000 Gallons of No. 2 Fuel Oil

MMBtu = 1,000,000 Btu

**METHODOLOGY**

Potential Throughput (Kgal/yr) = 8760 hr/yr \* 208 MMBtu/hr \* 1 Kgal/139 MMBtu

Potential To Emit (tons/year) = Heat Input Capacity (MMBtu/hr) \* 8760 (hr/yr) \* Emission Factor (lb/MMBtu) \* 1 ton/2000 lbs

Potential to Emit (tons/year) = Potential Throughput (Kgal/yr) \* Emission Factor (lb/KGAL) \* 1 ton/2000 lbs

**Appendix A: Emission Calculations**  
**Natural Gas Combustion**

**Company Name:** Indiana University  
**Address:** 820 North Walnut Grove, Bloomington, IN 47405-2206  
**Title V SSM:** 105-24626-00005  
**Title V SPM:** 105-24777-00005  
**Plant ID:** 105-00005  
**Reviewer:** ERG/KHB  
**Date:** June 19, 2007

**Natural Gas Combustion**

Heat Input Capacity MMBtu/hour 217.0	Potential Throughput MMCF/year 1,864
--	--

**Pollutant**

Emission Factor	* PM 1.9 (lb/MMCF)	* PM10 7.6 (lb/MMCF)	SO <sub>2</sub> 0.6 (lb/MMCF)	** NO <sub>x</sub> 0.036 (lb/MMBtu)	VOC 5.5 (lb/MMCF)	CO 84 (lb/MMCF)
Potential To Emit (tons/year)	1.77	7.08	0.56	34.22	5.13	78.27

**HAPs - Organics**

Natural Gas Emission Factor (lb/MMCF)	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03	Combined Organic HAP
Natural Gas Potential To Emit (tons/year)	1.96E-03	1.12E-03	6.99E-02	1.68E+00	3.17E-03	1.75E+00

**HAPs - Metals**

Emission Factor (lb/MMCF)	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03	Combined Metal HAP
Potential To Emit (tons/year)	4.66E-04	1.03E-03	1.30E-03	3.54E-04	1.96E-03	5.11E-03

Heat Input Capacity for natural gas combustion is from application.

\*PM and PM10 emission factors are filterable and condensable PM and PM10 combined.

\*\*Emission factor for NO<sub>x</sub>: Based on performance guarantees from Nebraska Boiler the manufacturer of the boiler.

All other Emission factors are from AP-42:

Natural gas: 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 (July, 1998).

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

**Natural Gas Combustion**

Potential Throughput (MMCF/yr) = Heat Input Capacity (MMBtu/hr) \* 8760 (hr/yr) \* 1 MMCF/1,020 MMBTU

Potential To Emit (tons/year) = Heat Input Capacity (MMBtu/hr) \* 8760 (hr/yr) \* Emission Factor (lb/MMBtu) \* 1 ton/2000 lbs

Potential to Emit (tons/year) = Potential Throughput (MMcf/yr) \* Emission Factor (lb/MMcf) \* 1 ton/2000 lbs

**Appendix A: Emission Calculations**  
**Combined Fuel Oil and Natural Gas Combustion - Limited**

**Company Name:** Indiana University  
**Address:** 820 North Walnut Grove, Bloomington, IN 47405-2206  
**Title V SSM:** 105-24626-00005  
**Title V SPM:** 105-24777-00005  
**Plant ID:** 105-00005  
**Reviewer:** ERG/KHB  
**Date:** June 19, 2007

**1 Natural Gas Combustion PTE**

Heat Input Capacity MMBtu/hour 217.0	Potential Throughput MMCF/year 1,864	Limited Throughput MMCF/year 1,785				
<b>Pollutant</b>						
Emission Factor (lb/MMCF)	* PM 1.9 (lb/MMCF)	* PM10 7.6 (lb/MMCF)	SO <sub>2</sub> 0.6 (lb/MMCF)	** NO <sub>x</sub> 0.036 (lb/MMBtu)	VOC 5.5 (lb/MMCF)	CO 84 (lb/MMCF)
Limited Potential To Emit (tons/year)	1.70	6.78	0.54	32.77	4.91	74.97

**2 No. 2 Fuel Oil Combustion**

Heat Input Capacity MMBtu/hour 208.0	Potential Throughput Kgal/year 13,108	Limited Throughput Kgal/year 4,930				
<b>Pollutant</b>						
Emission Factor (lb/MMCF)	* PM 2 (lb/Kgal)	* PM10 3.3 (lb/Kgal)	SO <sub>2</sub> 15.7 (lb/Kgal)	** NO <sub>x</sub> 0.090 (lb/MMBtu)	VOC 0.2 (lb/Kgal)	**CO 5 (lb/KGal)
Limited Potential To Emit (tons/year)	4.93	8.13	38.70	30.84	0.49	12.32

**3 Worst-Case PTE**

Potential To Emit (tons/year)	4.93	8.13	38.70	32.77	4.91	74.97
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Heat Input Capacity for natural gas and fuel oil combustion is from application.

\*PM and PM10 emission factors are filterable and condensable PM and PM10 combined.

\*\*Emission factors for NO<sub>x</sub>: Based on performance guarantees from Nebraska Boiler the manufacturer of the boiler.

No. 2 Fuel Oil will be Limited to no more than 0.1% sulfur content

All other Emission factors are from AP-42:

Natural gas: 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 (July, 1998).

No. 2 fuel oil: Chapter 1.3, Tables 1.3-1, 1.3-2, and 1.3-6, SCC# 1-01-005-01, 1-02-005-01, and 1-03-005-01 (September, 1998)

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

MGAL = 1,000 Gallons of No. 2 Fuel Oil

**METHODOLOGY****Natural Gas Combustion**

Potential Throughput (MMCF/yr) = Heat Input Capacity (MMBtu/hr) \* 8760 (hr/yr) \* 1 MMCF/1,020 MMBTU

**No. 2 Fuel Oil Combustion**

Potential Throughput (Kgal/yr) = Heat Input Capacity (MMBtu/hr) \* 8760 (hr/yr) \* 1 Kgal/139 MMBTU

Limited Potential To Emit (tons/year) = Limited Throughput (Mgal/year) \* Emission Factor (lb/Mgal) \* 1 ton/2000 lbs

**NOTE** Fuel use is limited so that, in combination with Potential Emissions from the emergency generator, total project emissions are less than 40 tons/year. The new emergency generator has a NO<sub>x</sub> PTE of 7.3 tons/year, therefore a natural gas equivalency amount to keep boiler emissions below 32.8 tons/year was chosen.

**Appendix A: Emission Calculations**  
**Combined Fuel Oil and Natural Gas Combustion - Limited**

**Company Name:** Indiana University  
**Address:** 820 North Walnut Grove, Bloomington, IN 47405-2206  
**Title V SSM:** 105-24626-00005  
**Title V SPM:** 105-24777-00005  
**Plant ID:** 105-00005  
**Reviewer:** ERG/KHB  
**Date:** June 19, 2007

**HAPs - Organics**

Natural Gas Emission Factor (lb/MMCF)	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03	
Natural Gas Potential To Emit (tons/year)	1.87E-03	1.07E-03	6.69E-02	1.61E+00	3.03E-03	
Fuel Oil Emission Factor (lb/Kgal)	Benzene 2.1E-04	Dichlorobenzene --	Formaldehyde 3.3E-02	Hexane --	Toluene 6.2E-03	
Fuel Oil Limited Potential To Emit (tons/year)	5.3E-04	--	8.1E-02	--	1.5E-02	Combined Organic HAP Potential to Emit (tons/year)
Worst-Case Potential to Emit (tons/year)	1.87E-03	1.07E-03	8.13E-02	1.61E+00	1.53E-02	<b>1.71E+00</b>

**HAPs - Metals**

Natural Gas Emission Factor (lb/MMCF)	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03	
Natural Gas Potential To Emit (tons/year)	4.53E-04	9.97E-04	1.27E-03	3.44E-04	1.90E-03	
Fuel Oil (lb/MMBtu)	Lead 9.0E-06	Cadmium 3.0E-06	Chromium 3.0E-06	Manganese 6.0E-06	Nickel 3.0E-06	
Fuel Oil Limited Potential To Emit (tons/year)	3.08E-03	1.03E-03	1.03E-03	2.06E-03	1.03E-03	Combined Metal HAP Potential to Emit (tons/year)
Worst-Case Potential to Emit (tons/year)	3.08E-03	9.97E-04	1.27E-03	2.06E-03	1.90E-03	<b>9.31E-03</b>

**HAPS from Combustion**

Methodology is the same as previous page.

The HAPs emission factors for Natural Gas provided above are from AP-42, Chapter 1.4, Table 1-4-2, 1.4-3 and 1.4-4 (July, 1998).

Additional Natural Gas HAPs emission factors are available in AP-42, Chapter 1.4.

The No. 2 Fuel Oil HAP emission factors are from AP-42, Chapter 1.3, Table 1.3-9 (September, 1998)

Not all of the compounds with emission factors among the five highest emission factors for NG have emission factors for No.2 Fuel Oil

Because combustion in this boiler will predominantly be of NG, emissions of these five compounds will still be the five largest HAP emissions

**Appendix A: Emission Calculations**  
**Comparison of AP-42 emission factors for NO<sub>x</sub> with those provided as guarantees**  
**from the boiler vendor and used in TSD.**

**Company Name:** Indiana University  
**Address:** 820 North Walnut Grove, Bloomington, IN 47405-2206  
**Title V SSM:** 105-24626-00005  
**Title V SPM:** 105-24777-00005  
**Plant ID:** 105-00005  
**Reviewer:** ERG/KHB  
**Date:** June 19, 2007

All figures in table expressed as pounds/ MMBtu.

	NO <sub>x</sub>	
	Natural gas	Fuel oil
AP-42	0.098	0.072
Vendor	0.036	0.09
Difference	-63%	25%

**NO<sub>x</sub>**

Fuel oil - vendor predicts emissions 25% higher than AP-42

Natural gas - vendor predicts emissions 63% lower than AP-42

Note: New boiler will be equipped with NO<sub>x</sub> monitor so testing will not be necessary to verify vendor's guarantee.

AP-42 numbers for boiler with low NO<sub>x</sub> burners and FGD.

**Appendix A: Emission Calculations**  
**Diesel fuel oil fired combustion**  
**>600 HP generator**  
**Emergency Generator MSD 1**

**Company Name:** Indiana University  
**Address:** 820 North Walnut Grove, Bloomington, IN 47405-2206  
**Title V SSM:** 105-24626-00005  
**Title V SPM:** 105-24777-00005  
**Plant ID:** 105-00005  
**Reviewer:** ERG/KHB  
**Date:** June 19, 2007

Power Output (HP)	Potential Operating Hours (hrs/yr)	Weight % Sulfur (S)
1200	500	0.5

	Pollutant					
	PM	PM10**	SO2	NOx	VOC	CO
>600 HP Emission Factor in lb/hp-hr*	0.0007	0.0007	0.004 8.09E-03S	0.024	0.000705	0.0055
Potential Emissions (tons/yr)	0.21	0.21	1.20	7.20	0.21	1.65

\* Diesel combustion AP-42 emission factors from AP-42, Section 3.4 (10/1996), Table 3.4-1.

\*\* Assume PM10 emissions are equal to PM emissions.

**Methodology**

Potential Emissions (tons/yr) = Power Output (HP) x Potential Operating Hours (hrs/yr) x Emission Factor (lb/hp-hr) x 1 ton/2000 lb

**Appendix A: Emission Calculations**  
**Summary of Annual Criteria Pollutant Emissions**

**Company Name:** Indiana University  
**Address:** 820 North Walnut Grove, Bloomington, IN 47405-2206  
**Title V SSM:** 105-24626-00005  
**Title V SPM:** 105-24777-00005  
**Plant ID:** 105-00005  
**Reviewer:** ERG/KHB  
**Date:** June 19, 2007

**Unrestricted Potential to Emit**

	PM	PM10	SO2	NOx	VOC	CO
EU-07	13.11	21.63	102.90	81.99	5.13	78.27
Emerg. Gen	0.21	0.21	1.20	7.20	0.21	1.65
<b>Total</b>	<b>13.32</b>	<b>21.84</b>	<b>104.10</b>	<b>89.19</b>	<b>5.34</b>	<b>79.92</b>

**Limited PTE**

	PM	PM10	SO2	NOx	VOC	CO
EU-07	4.93	8.13	38.70	32.77	4.91	74.97
Emerg. Gen	0.21	0.21	1.20	7.20	0.21	1.65
<b>Total</b>	<b>5.14</b>	<b>8.34</b>	<b>39.90</b>	<b>39.97</b>	<b>5.12</b>	<b>76.62</b>

All emissions are in tons/year.

**Appendix A: Emission Calculations  
Fuel Equivalency Calculations**

**Company Name:** Indiana University  
**Address:** 820 North Walnut Grove, Bloomington, IN 47405-2206  
**Title V SSM:** 105-24626-00005  
**Title V SPM:** 105-24777-00005  
**Plant ID:** 105-00005  
**Reviewer:** ERG/KHB  
**Date:** June 19, 2007

**Fuel Usage Limitations**

Fuel: Natural Gas

$$\frac{32.78 \text{ tons NOx/year limited}}{34.22 \text{ tons NOx/year potential}} \quad * \quad 1864 \frac{\text{MMcf}}{\text{year potential}} = 1785.56 \frac{\text{MMcf}}{\text{year limited}}$$

Fuel Oil: No. 2 Fuel Oil

$$\frac{32.78 \text{ tons NOx/year limited}}{81.99 \text{ tons NOx/year potential}} \quad * \quad 13108.00 \frac{\text{Kgals}}{\text{year potential}} = 5240.64 \frac{\text{Kgals}}{\text{year limited}}$$

$$\frac{38.7 \text{ tons SO}_2\text{/year limited}}{102.90 \text{ tons SO}_2\text{/year potential}} \quad * \quad 13108.00 \frac{\text{Kgals}}{\text{year potential}} = 4929.83 \frac{\text{Kgals}}{\text{year limited}}$$

**Fuel equivalence limit for natural gas based on SO<sub>2</sub> emissions from No. 2 fuel oil**

$$\frac{0.56 \text{ Natural gas potential emissions (ton/yr)}}{1864.00 \text{ Natural gas potential usage (MMcf/yr)}} \quad / \quad \frac{102.90 \text{ \#2 F.O. potential emissions (ton/yr)}}{13108.00 \text{ \#2 F.O. potential usage (kgal/yr)}} = 0.0383 \frac{\text{Kgal \#2 F.O. burned}}{\text{MMcf natural gas burned}}$$

**Fuel equivalence limit for No. 2 Fuel Oil based on NO<sub>x</sub> emissions from natural gas**

$$\frac{81.99 \text{ \#2 F.O. potential emissions (ton/yr)}}{13108 \text{ \#2 F.O. potential usage (kgal/yr)}} \quad / \quad \frac{34.22 \text{ Natural gas potential emissions (ton/yr)}}{1864.00 \text{ Natural gas potential usage (MMcf/yr)}} = 0.3407 \frac{\text{MMcf natural gas burned}}{\text{Kgal \#2 F.O. burned}}$$