



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: September 29, 2006
RE: University of Notre Dame / 141-22724-00013
FROM: Nisha Sizemore
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval – Effective Immediately

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

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

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

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

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

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

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

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

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



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

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Mr. Tom Stark
100 Facilities Building
Notre Dame, IN 46556

September 29, 2006

Re: 141-22724-00013
Second Significant Permit Modification to
Part 70 Permit No.: 141-7412-00013

Dear Mr. Stark:

University of Notre Dame du Lac was issued a Part 70 permit on June 30, 2004, for the operation of a campus power plant and a dry cleaning operation. An application requesting changes to this permit was received by the Office of Air Quality (OAQ) on February 24, 2006. Pursuant to the provisions of 326 IAC 2-7-12, a significant permit modification to this permit is hereby approved as described in the attached Technical Support Document.

The modification consists of specifying diesel fuel limits for Generators G-8, G-9 and G-10 to comply with PSD limits for PM10.

All other conditions of the permit shall remain unchanged and in effect.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Ganesh Srinivasan, c/o OAQ, 100 North Senate Avenue, Indianapolis, Indiana, 46204-2251, or at 973-575-2555, extension 3241, or dial 1-800-451-6027, and ask for extension 3-6878.

Sincerely,

Original Signed By:
Nisha Sizemore, Chief
Permits Branch
Office of Air Quality

Attachments
GSN/ EVP

cc: File – St. Joseph County
U.S. EPA, Region V
St. Joseph County Health Department
Air Compliance Section Inspector – Rick Reynolds
Compliance Data Section
Administrative and Development
Technical Support and Modeling



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PART 70 OPERATING PERMIT OFFICE OF AIR QUALITY

**University of Notre Dame du Lac
100 Facilities Building
Notre Dame, Indiana 46556**

(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.: T141-7412-00013	
Issued by: Original Signed by Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: June 30, 2004 Expiration Date: June 30, 2009
First Significant Source Modification 141-15828-00013	Issuance date: April 30, 2003
Second Significant Source Modification 141-20012-00013	Issuance date: August 24, 2005
First Significant Permit Modification 141-20402-00013	Issuance date: September 6, 2005
First Minor Permit Modification 141-21977-00013	Issuance date: February 21, 2006
Second Significant Permit Modification No.: T141-22724-00013	
Issued by: Original Signed By: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: September 28, 2006 Expiration Date: June 30, 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)]

The Permittee owns and operates a stationary power plant for heating purposes and a dry cleaning operation.

Responsible Official:	Vice President for Business Operations
Source Address:	100 Facilities Building, Notre Dame, Indiana, 46556
Mailing Address:	100 Facilities Building, Notre Dame, Indiana, 46556
General Source Phone Number:	(574) 631-6666
SIC Code:	8221
County Location:	St. Joseph
Source Location Status:	Nonattainment for ozone under the 8-hour standard Attainment for all other criteria pollutants
Source Status:	Part 70 Permit Program Major, under PSD and Emission Offset; 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)]

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

- (a) One (1) No.6 fuel oil or natural gas fired boiler constructed in 1961, identified as B-1, with a single low NOx burner and Economizer installed in 2006, and with a maximum design capacity of 137 MMBtu per hour heat input, exhausting to stack S-1;
- (b) Two (2) coal or natural gas fired boilers constructed in 1952, identified as B-2 and B-3, with maximum design capacities of 96 MMBtu per hour heat input each, each equipped with low NOx burners when using natural gas, and cyclones, identified as D-1 and D-2, respectively, for particulate control on each when combusting coal, with opacity measured by a certified continuous opacity monitor identified as COM1 when combusting coal, exhausting at stack S-1;
- (c) One (1) coal, No.2 fuel oil, or natural gas fired boiler constructed in 1966, identified as B-4, with a maximum design capacity of 234 MMBtu per hour heat input, equipped with an electrostatic precipitator, identified as E-1, for particulate control when combusting coal, with opacity measured by a certified continuous opacity monitor identified as COM2 when combusting coal and/or oil, exhausting at stack S-2;
- (d) One (1) No.2 fuel oil or natural gas boiler constructed in 1973, identified as B-5, with a maximum design capacity of 244.5 MMBtu per hour heat input, equipped with low NOx burners for natural gas and fuel oil, exhausting at stack S-3;
- (e) Two (2) diesel-fired generators constructed in 1953, identified as G-3 and G-4, with maximum design capacities of 13.70 MMBtu per hour heat input each, exhausting to stacks S-4 and S-5, respectively;

- (f) Three (3) diesel-fired generators, for which a construction permit was issued in 2003, identified as G-8, G-9 and G-10, each with a maximum rated capacity of 2,593 brake horsepower (6.59 MMBtu per hour heat input each), exhausting to stacks S-6, S-7 and S-8, respectively, with total additional generator capacity of 5.79 MW;
- (g) Dry cleaning operations, identified as DC-1, consisting of two (2) dry-to-dry systems using perchloroethylene, with a maximum amount of 1.0 gallon per day disposed of or sold. The air-perchloroethylene gas-vapor streams are routed through two (2) refrigerated condensers for control.
- (h) One (1) 249 MMBtu/hr boiler identified as Boiler No.6, equipped with a low NOx burner and flue gas recirculation (FGR), fired primarily on natural gas with No. 2 fuel oil used as backup fuel. The unit will exhaust through stack S-9 monitored by a certified COM and NOx CEM.

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

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

- (a) One (1) underground diesel fuel storage tank for which a construction permit was issued in 2003 for generators G-8, G-9 and G-10, identified as UST, with maximum storage capacity of 30,000 gallons. [326 IAC 12-1] [40 CFR 60, Subpart A]
- (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) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]
- (d) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring, buffing, polishing, abrasive blasting, pneumatic conveying; and woodworking operations. [326 IAC 6-3-2].
- (e) Other activities or categories not previously identified that have emissions equal to that or less than insignificant thresholds [326 IAC 6-3-2]
 - (1) Long and short term coal storage piles, totaling 10.33 acres;
 - (2) One (1) 1200 ton coal handling facility;
 - (3) One (1) 450 ton coal bunker for boilers B-2 and B-3;
 - (4) One (1) 250 ton coal bunker for boiler B-4;
 - (5) One (1) 3200 cubic feet dry ash storage silo;
 - (6) Underground storage tanks: four at 50,000 gallons for No.2 fuel oil; five at 20,000 gallons for No.6 fuel oil, one at 20,000 gallons for diesel fuel; and one underground diesel fuel storage tank installed in 2003 for generators G-8, G-9 and G-10, identified as UST, with maximum storage capacity of 30,000 gallons;
 - (7) Five (5) 300 gallon diesel fuel day tanks for G-3, G-4, G-8, G-9 and G-10; and
 - (8) One (1) Maintenance Shop paint booth.

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

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

- (a) It is a major source, as defined in 326 IAC 2-7-1(22); and
- (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).

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] [326 IAC 2-7-4(a)(1)(D)] [IC 13-15-3-6(a)]

- (a) This permit (T141-7412-00013) 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]

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]

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)]

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

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

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

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

- (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
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]**

- (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
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]

- (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
Indianapolis, Indiana 46204-2251

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

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

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

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

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee

may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

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

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed 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(c)(7)]

- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

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

- (a) All terms and conditions of permits 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 permit, all previous registrations and permits are superseded by this Part 70 operating permit.

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

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

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
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]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, determines any of the following:
- (1) That this permit contains a material mistake.

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

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

- (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
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
Indianapolis, Indiana 46204-2251

Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

B.19 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)]
[326 IAC 2-7-12 (b)(2)]

- (a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.20 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:
- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
 - (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
 - (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
 - (4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
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.

B.21 Source Modification Requirement [326 IAC 2-7-10.5]

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

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

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
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.

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

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

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

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

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

C.5 Fugitive Dust Emissions [326 IAC 6-4]

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

C.6 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The provisions of 326 IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.

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

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.8 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
Indianapolis, Indiana 46204-2251

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

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

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within thirty (30) 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 thirty (30) 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
Indianapolis, Indiana 46204-2251

in writing, prior to the end of the initial thirty (30) days 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 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, except as provided otherwise in the Section D requirements.
- (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.

C.12 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.13 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.14 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 prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on December 9, 1996.
- (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.15 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 Permittee must comply with the applicable requirements of 40 CFR 68.

C.16 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records;
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.

- (e) The Permittee shall maintain the following records:
 - (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

C.17 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.18 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) ("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
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.19 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) If there is a reasonable possibility that a "project" (as defined in 326 IAC 2-2-1 (qq) and 326 IAC 2-3-1 (ll) at an existing emissions unit, other than projects at a Clean Unit, which is not part of a "major modification" (as defined in 326 IAC 2-2-1 (ee) and 326 IAC 2-3-1 (z) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1 (rr) and 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 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 326 IAC 2-3-1(mm)(2)(A)(3); 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.20 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

- (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
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 2-3-1 (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 (qq) and 326 IAC 2-3-1 (II), 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).

Stratospheric Ozone Protection

C.21 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.

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

C.22 General Provisions Relating to NESHAP [326 IAC 20-1][40 CFR Part 63, Subpart A]

- B-
- (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 B-2, 3, and B-4 and 40 CFR 63.7506(b) for boilers B-1 and B-5, 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 B-2, B-3, and B-4) 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.23 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 63, Subpart DDDDD]

- (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 B-2, B-3, and B-4.
- (c) The following emissions units comprise the affected source for the large liquid fuel subcategory: boilers B-1 and B-5.
- (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 B-2, B-3, and B-4) 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.24 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 boilers B-1 and B-5 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 B-2, B-3, and B-4) 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,
Indianapolis, Indiana 46204-2251

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.25 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 B-2, B-3, and B-4).

- (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,
Indianapolis, Indiana 46204-2251

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

- (a) One (1) No.6 fuel oil or natural gas fired boiler constructed in 1961, identified as B-1, with a single low NOx burner and Economizer installed in 2006, and with a maximum design capacity of 137 MMBtu per hour heat input, exhausting to stack S-1.

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

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

D.1.1 Particulate Matter Limitation (PM) [326 IAC 6.5-7]

- (a) Pursuant to 326 IAC 6.5-7 (Particulate emission limitations for sources in St. Joseph County) PM emissions from boiler B-1 shall not exceed 0.087 pounds of particulate matter per million British thermal unit's heat input.
- (b) Pursuant to 326 IAC 6.5-7 (Particulate emission limitations for sources in St. Joseph County) PM emissions from boilers B-1 through B-5 shall not exceed a total of 118.7 tons per year

D.1.2 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 from stack S-1 shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) 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.

D.1.3 Sulfur Dioxide Emission Limitations [326 IAC 7-1.1]

Pursuant to 326 IAC 7-1.1 (SO₂ Emissions Limitations) the SO₂ emissions from boiler B-1 shall not exceed one and six tenths (1.6) pounds per MMBtu heat input when combusting No.6 fuel oil.

D.1.4 Operation Standards [326 IAC 2-1.1-5(a)(4)] [40 CFR 261] [40 CFR 279] [329 IAC 13]

- (a) The burning of hazardous waste, as defined by 40 CFR 261, is prohibited in boiler B-1. If used, any boiler tube chemical cleaning waste liquids evaporated in the boiler, and any used oil combusted shall meet the toxicity characteristic requirements for non-hazardous waste.
- (b) If used, any boiler tube chemical cleaning waste liquids evaporated in the boiler shall only contain the cleaning solution and two full volume boiler rinses.

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

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for boiler B-1.

D.1.6 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and

Institutional Boilers and Process Heaters [40 CFR Part 63, Subpart DDDDD]

The 137 MMBtu/hr natural gas and No. 6 fuel oil fired boiler identified as Boiler No.1 is 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 September 13, 2007, three years after the date of publication of the final rule for 40 CFR 63, Subpart DDDDD in the Federal Register.

D.1.7 General Provisions Relating to NESHAP [326 IAC 20-1][40 CFR Part 63, Subpart A]

The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected source, as designated by 40 CFR 63.7506(b).

Compliance Determination Requirements

D.1.8 Fuel Oil Sulfur Content Limit

To demonstrate compliance with condition D.1.1 when boiler B-1 combusts fuel oil, the sulfur content of the fuel oil combusted shall not exceed 1.06 percent.

D.1.9 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 3] [326 IAC 7-2] [326 IAC 7-1.1-2]

- (a) Pursuant to 326 IAC 7-2-1(c)(3), the Permittee shall demonstrate that when combusting fuel oil in B-1, the sulfur dioxide emissions do not exceed the equivalent of 1.6 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, with the prior approval of the department, modify the procedures specified in 326 IAC 3-7-4(a), use alternate equivalent procedures, or 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)]

D.1.10 Cleaning Waste Characterization [326 IAC 2-1.1-5(a)(4)] [40 CFR 261]

If applicable, the Permittee shall use appropriate methodology as identified in 40 CFR Part 261 to characterize all boiler chemical cleaning wastes that will be evaporated, to determine compliance with the Operation Standards condition in this D section.

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

D.1.11 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

When boiler B-1 is the only boiler exhausting to stack S-1, and it is combusting fuel oil:

- (a) Visible emission (VE) notations of the stack exhaust shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) If abnormal emissions are observed at the stack exhaust, the Permittee shall take reasonable response steps in accordance with Section C – Response to Excursions and 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 and Exceedances, shall be considered a deviation of 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 boiler.

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

D.1.12 Record Keeping Requirements

- (a) To document compliance with the SO₂ Conditions D.1.3 and D.1.9, the Permittee shall maintain records in accordance with (1) through (6) below. Records shall be complete and sufficient to establish compliance with the SO₂ limit as required in Conditions D.1.3 and D.1.9.
 - (1) Calendar dates covered in the compliance determination period;
 - (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;
 - (3) 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; andIf 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 of the fuel oil.
- (b) To document compliance with condition D.1.11, the Permittee shall maintain records of once per shift visible emission notations of stack exhaust S-1, if boiler B-1 is the only boiler in operation for stack S-1, and it is combusting fuel oil.
- (c) To document compliance with D.1.5, the Permittee shall maintain records of the results of all boiler inspections, including any additional inspections prescribed by the Preventive Maintenance Plan.
- (d) Boiler No.1 is subject to notification requirements provided in 40 CFR Part 60, Subpart

DDDDD. Compliance will be demonstrated in accordance with Subpart DDDDD provisions.

- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.13 Reporting Requirements

- (a) A quarterly summary of the information to document compliance with Conditions D.1.1 and D.1.3 in any compliance period when fuel oil was combusted, and the natural gas fired boiler certification, shall be submitted to the address listed in Section C - General Reporting Requirements, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

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

- (b) Two (2) coal or natural gas fired boilers constructed in 1952, identified as B-2 and B-3, with maximum design capacities of 96 MMBtu per hour heat input each, each equipped with low NOx burners when using natural gas, and cyclones, identified as D-1 and D-2, respectively, for particulate control on each when combusting coal, with opacity measured by a certified continuous opacity monitor identified as COM1 when combusting coal, exhausting at stack S-1.

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

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

D.2.1 Particulate Matter Limitation (PM) [326 IAC 6.5-7]

- (a) Pursuant to 326 IAC 6.5-7 (Particulate emission limitations for sources in St. Joseph County) PM emissions from boilers B-2 and B-3 shall not exceed 0.28 pounds of particulate matter per million British thermal units heat input each.
- (b) Pursuant to 326 IAC 6.5-7 (Particulate emission limitations for sources in St. Joseph County) PM emissions from boilers B-1 through B-5 shall not exceed a total of 118.7 tons per year.

D.2.2 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 from stack S-1 shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) 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.

D.2.3 Sulfur Dioxide Emission Limitations [326 IAC 7-1.1]

Pursuant to 326 IAC 7-1.1-2, sulfur dioxide emissions from boilers B-2 and B-3 shall not exceed 6.0 pounds per million British thermal units (lb/MMBtu) of heat input each.

D.2.4 Operation Standards [326 IAC 2-1.1-5(a)(4)] [40 CFR 261] [40 CFR 279] [329 IAC 13]

- (a) All coal burned in boilers B-2 and B-3, including coal treated with any additive, shall meet ASTM specifications for classification as coal (ASTM D388).
- (b) The burning of hazardous waste, as defined by 40 CFR 261, is prohibited in boilers B-2, and B-3. If used, any boiler tube chemical cleaning waste liquids evaporated in the boiler, and any used oil combusted shall meet the toxicity characteristic requirements for non-hazardous waste.
- (c) If used, any boiler tube chemical cleaning waste liquids evaporated in the boiler shall only contain the cleaning solution and two full volume boiler rinses.

D.2.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

- (a) A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for boilers B-2 and B-3 and their control devices.
- (b) The PMP for each dust collector (D-1 and D-2) shall include inspections of the internal components of each collector, conducted biannually or every 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 tubes, and plugging of the bottom of the tubes.

Compliance Determination Requirements

D.2.6 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

Within 24 months following the date of permit issuance, compliance with the PM limitations in Condition D.2.1 shall be determined by a performance stack test conducted while B-2 and B-3 are combusting coal utilizing methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

For the purpose of this permit, "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

D.2.7 Continuous Emissions Monitoring [326 IAC 3-5]

- (a) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), the continuous opacity monitoring system (COM1) used for measuring opacity from B-2 and/or B-3 when combusting coal shall be calibrated, maintained, and operated for measuring opacity which meet all applicable performance specifications of 326 IAC 3-5-2.
- (b) The continuous opacity monitoring system (COM1) is subject to the 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 the continuous opacity monitoring system (COM1) pursuant to 326 IAC 3-5.

D.2.8 Operation of Cyclones [326 IAC 2-7-6(6)]

Except as otherwise provided by statute or rule or in this permit, the cyclones, D1 and D2, shall be operated at all times that their respective boilers, B-2 and/or B-3 are in operation and combusting coal.

D.2.9 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 3] [326 IAC 7-2] [326 IAC 7-1.1-2]

- (a) Pursuant to 326 IAC 7-2-1(c)(2), the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed the equivalent of six (6.0) pounds per MMBtu from each boiler, B-2 and B-3, when combusting coal, or when combusting coal simultaneously with another fuel, using a thirty (30) day calendar average.
- (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.2.10 Cleaning Waste Characterization [326 IAC 2-1.1-5(a)(4)] [40 CFR 261]

If applicable, the Permittee shall use appropriate methodology as identified in 40 CFR Part 261 to characterize all boiler chemical cleaning wastes that will be evaporated, to determine compliance with the Operation Standards condition in this D section.

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

D.2.11 Opacity Readings [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

While boilers B-2 and/or B-3 are operating and combusting coal:

- (a) In the event of opacity exceeding twenty percent (20%) 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 and Exceedances such that the cause(s) of the excursion are identified and corrected and opacity levels are brought back below twenty percent (20%). Examples of expected response steps may include, but are not limited to, boiler loads being reduced.
- (b) Opacity readings in excess of twenty percent (20%) but not exceeding the opacity limit for boilers B-2 and B-3 when combusting coal, are not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions and Exceedances, shall be considered a deviation of this permit.

D.2.12 Monitoring: Cyclones [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) The ability of the cyclones, D-1 and D-2, to control particulate emissions shall be monitored at least once per day, when their respective boilers, B-2 and B-3, are in operation and combusting coal, by measuring and recording the total static pressure drop across the units.
- (b) Reasonable response steps shall be taken in accordance with Section C - Response to Excursions and 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 - Response to Excursions and Exceedances, shall be considered a deviation of this permit.

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

D.2.13 Record Keeping Requirements

- (a) To document compliance with Conditions D.2.1, D.2.2, D.2.7, D.2.11 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 Conditions D.2.1, D.2.2, and D.2.11.
- (1) Data and results from the most recent stack test.
 - (2) All continuous opacity monitoring data (COM1), pursuant to 326 IAC 3-5-6.
 - (3) The results of all visible emission (VE) notations and Method 9 visible emission readings taken at stack S-1 during any periods of COM1 downtime.
 - (4) All cyclone (D-1 and D-2) parametric monitoring readings.
- (b) To document compliance with SO₂ Conditions D.2.3 and D.2.10, the Permittee shall maintain records in accordance with (1) and (2) below. Records shall be complete and sufficient to establish compliance with the SO₂ limits as required in Conditions D.2.3 and D.2.10.
- (1) All fuel sampling and analysis data, pursuant to 326 IAC 7-2.
 - (2) Actual fuel usage since last compliance determination period.
- (c) Pursuant to 326 IAC 3-7-5(a), owners or operators of sources with total coal-fired capacity greater than or equal to one hundred (100) MMBtu per hour actual heat input shall develop a standard operating procedure (SOP) to be followed for sampling, handling, analysis, quality control, quality assurance, and data reporting of the information collected pursuant to 326 IAC 3-7-2 through 326 IAC 3-7-4. In addition, any revision to the SOP shall be submitted to IDEM, OAQ.
- (d) To document compliance with D.2.5, the Permittee shall maintain records of the results of all boiler and emission control equipment inspections, including any additional inspections prescribed by the Preventive Maintenance Plan.
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.14 Reporting Requirements

- (a) A quarterly summary of the information to document compliance with Conditions D.2.1 and D.2.3 in any compliance period when coal was combusted shall be submitted to the address listed in Section C - General Reporting Requirements, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) A quarterly report of opacity exceedances, during operation of B-2 and/or B-3 during coal combustion, to document compliance with Conditions D.2.2 and D.2.7, shall be submitted to the address listed in Section C - General Reporting Requirements, 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) For boilers B-2 and B-3, a quarterly report of the calendar month average coal sulfur content, coal heat content, and sulfur dioxide emission rate in pounds per million Btus and the total

monthly coal consumption 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 to document compliance with Condition D.2.9. [326 IAC 7-2-1(c)(2)]

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

(d) Pursuant to 326 IAC 3-5-7(5), reporting of continuous monitoring system (COM1) instrument downtime, except for zero (0) and span checks, which shall be reported separately, shall include the following:

- (1) Date of downtime.
- (2) Time of commencement.
- (3) Duration of each downtime.
- (4) Reasons for each downtime.
- (5) Nature of system repairs and adjustments.

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

(e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.3 FACILITY OPERATION CONDITIONS

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

- (c) One (1) coal, No.2 fuel oil, or natural gas fired boiler constructed in 1966, identified as B-4, with a maximum design capacity of 234 MMBtu per hour heat input, equipped with an electrostatic precipitator, identified as E-1, for particulate control when combusting coal, with opacity measured by a certified continuous opacity monitor identified as COM2 when combusting coal and/or oil, exhausting at stack S-2.

(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 6.5-7]

- (a) Pursuant to 326 IAC 6.5-7 (Particulate emission limitations for sources in St. Joseph County) PM emission limitations for boiler B-4 shall not exceed 0.17 pounds of particulate matter per million British thermal units heat input.
- (b) Pursuant to 326 IAC 6.5-7 (Particulate emission limitations for sources in St. Joseph County) PM emissions from boilers B-1 through B-5 shall not exceed a total of 118.7 tons per year.

D.3.2 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 from stack S-2 shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) 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.

D.3.3 Sulfur Dioxide Emission Limitations [326 IAC 7-1.1-2]

Pursuant to 326 IAC 7-1.1-2, sulfur dioxide emissions from boiler B-4 shall not exceed the following limits:

- (a) For facilities combusting coal and oil simultaneously: six and zero-tenths (6.0) pounds per million British thermal units (lb/MMBtu) of heat input.
- (b) Distillate fuel combustion: 0.5 pounds per million British thermal units (lb/MMBtu) of heat input.

D.3.4 Operation Standards [326 IAC 2-1.1-5(a)(4)] [40 CFR 261] [40 CFR 279] [329 IAC 13]

- (a) All coal burned, including coal treated with any additive, shall meet ASTM specifications for classification as coal (ASTM D388).
- (b) The burning of hazardous waste, as defined by 40 CFR 261, is prohibited in boiler B-4. If used, any boiler tube chemical cleaning waste liquids evaporated in the boiler, and any used oil combusted shall meet the toxicity characteristic requirements for non-hazardous waste.
- (c) If used, any boiler tube chemical cleaning waste liquids evaporated in the boiler shall only contain the cleaning solution and two full volume boiler rinses.

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

- (a) A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for boiler B-4 and its 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 or Alstom Switched Integrated Rectifier (SIR) Unit 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 or SIR Unit 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 or SIR Unit controllers (including but not limited to low voltage trip point, over current trip point, and spark rate).
 - (J) Vibrator air pressure settings.

Compliance Determination Requirements

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

Within 24 months following the date of permit issuance, compliance with the PM limitations in Condition D.3.1 shall be determined by a performance stack test conducted, while B-4 combusts coal, utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing.

For the purpose of this permit, "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

D.3.7 Operation of Electrostatic Precipitator [326 IAC 2-7-6(6)]

Except as otherwise provided by statute or rule, or in this permit, the electrostatic precipitator (ESP) shall be operated at all times that boiler B-4 vented to the ESP is in operation and combusting coal.

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

- (a) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), the continuous opacity monitoring system (COM2) for boiler B-4, when combusting fuel oil or coal, shall be calibrated, maintained, and operated for measuring opacity which meet all applicable performance specifications of 326 IAC 3-5-2.
- (b) The continuous opacity monitoring system (COM2) is subject to the 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 the continuous opacity monitoring system (COM2) pursuant to 326 IAC 3-5.

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

- (a) Pursuant to 326 IAC 7-2-1(c)(2), the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed the equivalent of six (6.0) pounds per MMBtu from boiler B-4 when combusting coal, or when combusting coal simultaneously with another fuel, using a calendar month average.
- (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][326 IAC 7-2][326 IAC 7-1.1-2]

Compliance shall be determined for boiler B-4 when using distillate oil (No.2 fuel oil), or fuel oil in combination with natural gas, by 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 MMBtu by:
 - (1) Providing vendor analysis of fuel delivered, if accompanied by a certification, or analyses from approved modified procedures specified in 326 IAC 3-7-4(a), or the use

of alternate equivalent procedures, as implemented;

- (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
 - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling; or
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from boiler B-4 when using distillate fuel, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

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

D.3.11 Cleaning Waste Characterization [326 IAC 2-1.1-5(a)(4)] [40 CFR 261]

If applicable, the Permittee shall use appropriate methodology as identified in 40 CFR Part 261 to characterize all boiler chemical cleaning wastes that will be evaporated, to determine compliance with the Operation Standards condition in this D section.

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

D.3.12 Alstom Switched Integrated Rectifier (SIR) Unit [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 B-4 is in operation and combusting coal, by measuring and recording the number of SIR Units in service, their primary and secondary voltages, and their currents.
 - (b) Reasonable response steps shall be taken in accordance with Section C - Response to Excursions and Exceedances, and Reports whenever the percentage of SIR Units in service falls below 50 percent (50%). SIR Unit failure resulting in less than 50 percent (50%) availability is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions and Exceedances shall be considered a deviation of this permit.

D.3.13 Opacity Readings [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

While boiler B-4 is operating and combusting coal or fuel oil;

- (a) In the event of opacity exceeding twenty percent (20%) for three (3) consecutive six (6) minute averaging periods, appropriate response steps shall be taken in accordance with Section C - Response to Excursions and Exceedances such that the cause(s) of the excursion are identified and corrected and opacity levels are brought back below twenty percent (20%). Examples of expected response steps include, but are not limited to, boiler loads being reduced, adjustment of flue gas conditioning rate, and SIR Units being returned to service.
- (b) Opacity readings in excess of twenty percent (20%) but not exceeding the opacity limit for boiler B-4 are not a deviation from this permit. Failure to take response steps in accordance with Section C – Response to Excursions and Exceedances, shall be considered a deviation of this permit.

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

D.3.14 Record Keeping Requirements

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- (a) To document compliance with Conditions D.3.1, D.3.2, D.3.8, D.3.12 and D.3.13, 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 Conditions D.3.1, D.3.2, D.3.8, D.3.12 and D.3.13.

- (1) Data and results from the most recent stack test.
 - (2) All continuous opacity monitoring data, pursuant to 326 IAC 3-5-6.
 - (3) The results of all visible emission (VE) notations readings taken during any periods of COM2 downtime.
 - (4) All SIR Unit monitoring.
- (b) To document compliance with SO₂ Conditions D.3.3(a) and D.3.9, the Permittee shall maintain records in accordance with (1) and (2) below. Records shall be complete and sufficient to establish compliance with the SO₂ limits as required in Conditions D.3.3(a) and D.3.9.

- (1) All fuel sampling and analysis data, pursuant to 326 IAC 7-2.
- (2) Actual fuel usage since last compliance determination period.

- (c) To document compliance with the SO₂ Conditions D.3.3(b) and D.3.10, the Permittee shall maintain records in accordance with (1) through (6) below. Records shall be complete and sufficient to establish compliance with the SO₂ limit as required in Conditions D.3.3(b) and D.3.10.

- (1) Calendar dates covered in the compliance determination period;
- (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;
- (3) 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 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.

- (d) Pursuant to 326 IAC 3-7-5(a), owners or operators of sources with total coal-fired capacity greater than or equal to one hundred (100) MMBtu per hour actual heat input shall develop a standard operating procedure (SOP) to be followed for sampling, handling, analysis, quality control, quality assurance, and data reporting of the information collected pursuant to 326 IAC 3-

7-2 through 326 IAC 3-7-4. In addition, any revision to the SOP shall be submitted to IDEM, OAQ.

- (e) To document compliance with Condition D.3.5, the Permittee shall maintain records of the results of all boiler and emission control equipment inspections, including 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.3.15 Reporting Requirements

- (a) A quarterly report of opacity exceedances and a quarterly summary of the information to document compliance with Conditions D.3.1, D.3.2, D.3.3, D.3.10, and D.3.13 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 report of the calendar month average coal sulfur content, coal heat content, and sulfur dioxide emission rate in pounds per million Btus and the total monthly coal consumption 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 to document compliance with D.3.9. [326 IAC 7-2-1(c)(2)]

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

- (c) Pursuant to 326 IAC 3-5-7(5), reporting of continuous monitoring system (COM2) instrument downtime, except for zero (0) and span checks, which shall be reported separately, shall include the following:
 - (1) Date of downtime.
 - (2) Time of commencement.
 - (3) Duration of each downtime.
 - (4) Reasons for each downtime.
 - (5) Nature of system repairs and adjustments.

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

- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.4 FACILITY OPERATION CONDITIONS

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

- (d) One (1) No.2 fuel oil or natural gas boiler constructed in 1973, identified as B-5, with a maximum

design capacity of 244.5 MMBtu per hour heat input, equipped with low NOx burners for natural gas and fuel oil, exhausting at stack S-3.

(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.4.1 Particulate Matter Limitation (PM) [326 IAC 6.5-7]

- (a) Pursuant to 326 IAC 6.5-7 (Particulate emission limitations for sources in St. Joseph County), PM emission limitations for boiler B-5 shall not exceed 0.02 pounds of particulate matter per million British thermal units heat input.
- (b) Pursuant to 326 IAC 6.5-7 (Particulate emission limitations for sources in St. Joseph County) PM emissions from boilers B-1 through B-5 shall not exceed a total of 118.7 tons per year.

D.4.2 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 from stack S-3 shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) 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.

D.4.3 Sulfur Dioxide Emission Limitations [326 IAC 7-1.1-2]

Pursuant to 326 IAC 7-1.1-2, sulfur dioxide emissions from boiler B-5 shall not exceed 0.5 pounds per million British thermal units (lb/MMBtu) of heat input when using distillate oil.

D.4.4 Operation Standards [326 IAC 2-1.1-5(a)(4)] [40 CFR 261] [40 CFR 279] [329 IAC 13]

- (a) The burning of hazardous waste, as defined by 40 CFR 261, is prohibited in boiler B-5. If used, any boiler tube chemical cleaning waste liquids evaporated in the boiler, and any used oil combusted shall meet the toxicity characteristic requirements for non-hazardous waste.
- (b) If used, any boiler tube chemical cleaning waste liquids evaporated in the boiler shall only contain the cleaning solution and two full volume boiler rinses.

D.4.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for boiler B-5.

Compliance Determination Requirements

D.4.6 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 3][326 IAC 7-2][326 IAC 7-1.1-2]

Compliance shall be determined for boiler B-5 when using distillate oil (No.2 fuel oil), or fuel oil in

combination with natural gas, by 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 MMBtu heat input by:
 - (1) Providing vendor analysis of fuel delivered, if accompanied by a certification, or analyses from approved modified procedures specified in 326 IAC 3-7-4(a), or the use of alternate equivalent procedures, as implemented;
 - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
 - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling; or
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from boiler B-5 when using distillate fuel, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

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

D.4.7 Cleaning Waste Characterization [326 IAC 2-1.1-5(a)(4)] [40 CFR 261]

If applicable, the Permittee shall use appropriate methodology as identified in 40 CFR Part 261 to characterize all boiler chemical cleaning wastes that will be evaporated, to determine compliance with the Operation Standards condition in this D section.

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

D.4.8 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) Visible emission (VE) notations of the boiler B-5 stack exhaust, S-3, shall be performed once per day during normal daylight operations while combusting fuel oil. 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 - Response to Excursions and 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 and Exceedances, shall be considered a deviation of 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 boiler.

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

D.4.9 Record Keeping Requirements

- (a) To document compliance with Condition D.4.3, the Permittee shall maintain records in

accordance with (1) through (6) below:

- (1) Calendar dates covered in the compliance determination period;
- (2) Calendar month average sulfur content, fuel consumption, and sulfur dioxide emission rate in pounds per MMBtu;
- (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.
- (b) To document compliance with Condition D.4.8, the Permittee shall maintain records of once per shift visible emission notations of the boiler B-5 stack exhaust, S-3.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.4.10 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.4.1 and D.4.3, and the Natural Gas 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.

SECTION D.5 FACILITY OPERATION CONDITIONS

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

- (e) Two (2) diesel-fired generators constructed in 1953, identified as G-3 and G-4, with maximum design ratings of 13.70 MMBtu per hour heat input each, exhausting to stacks S-4 and S-5,

respectively.

- (f) Three (3) diesel-fired generators, for which a construction permit was issued in 2003, identified as G-8, G-9 and G-10, each with a maximum rated capacity of 2,593 brake horsepower (6.59 MMBtu per hour heat input each), exhausting to stacks S-6, S-7 and S-8, respectively, with total additional generator capacity of 5.79 MW.

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

General Construction Conditions for Generators G-8, G-9 and G-10

D.5.1 Effective Date of the Permit [IC 13-15-5-3]

Pursuant to PSD Significant Source Modification 141-15828-00013, issued April 30, 2003, and IC 13-15-5-3, the PSD Significant Source Modification 141-15828-00013, issued April 30, 2003, became effective upon its issuance.

D.5.2 Permit Expiration Date [326 IAC 2-2-8(a)(1)]

Pursuant to 326 IAC 2-2-8(a)(1) (PSD Requirements: Source Obligation), the PSD Significant Source Modification 141-15828-00013, issued April 30, 2003, to construct shall expire if construction is not commenced within eighteen (18) months after receipt of the PSD Significant Source Modification approval or if construction is discontinued for a continuous period of eighteen (18) months or more, or if construction is not completed within reasonable time. IDEM may extend the eighteen (18) month period upon satisfactory showing that an extension is justified.

D.5.3 Significant Source Modification [326 IAC 2-7-10.5(h)]

This document shall also become the approval to operate pursuant to 326 IAC 2-7-10.5(h) when, prior to start of operation, the following requirements are met:

- (a) The affidavit of construction attached to PSD Significant Source Modification 141-15828-00013, issued April 30, 2003, shall be submitted to the Office of Air Quality (OAQ), Permit Administration & Development Section, verifying that the emission units were constructed as proposed in the PSD Significant Source Modification application or the permit. The emissions units covered in the Significant Source Modification approval may begin operating on the date the affidavit of construction is postmarked or hand delivered to IDEM if constructed as proposed.
- (b) If actual construction of the emissions units differs from the construction proposed in the PSD Significant Source Modification application or the permit in a manner that is regulated under the provisions of 326 IAC 2-2, the source may not begin operation until the source modification has been revised pursuant to the provisions of that rule and the provisions of 326 IAC 2-2 and an Operation Permit Validation Letter is issued.
- (c) If actual construction of the emissions units differs from the construction proposed in the PSD Significant Source Modification application or the permit in a manner that is not regulated under the provisions of 326 IAC 2-2, the source may not begin operation until the source modification has been revised pursuant to the provisions of 326 IAC 2-7-10.5 and the provisions of 326 IAC 2-7-11 or 326 IAC 2-7-12 and an Operation Permit Validation Letter is issued.
- (d) The Permittee shall receive an Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section and attach it to this document.

Operation Conditions for the Generators

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

D.5.4 Emission Limitations for Diesel-Fired Generators [326 IAC 2-2]

- (a) Pursuant to PSD Significant Source Modification 141-15828-00013, issued on April 30, 2003, and 326 IAC 2-2-2 (PSD requirements: Applicability) in order to render the requirements of 326 IAC 2-2 PSD not applicable for PM10 emissions, the combined fuel usage from the diesel-fired generator units (G-8, G-9, and G-10) shall be limited to less than 3,076,600 gallons of diesel fuel per twelve (12) consecutive month period, with compliance determined at the end of each month. PM10 emissions shall not exceed 0.0097 lb PM10/gallon diesel oil burned. This usage limit will limit PM10 (including filterable and condensable) emissions from the diesel-fired generators (G-8, G-9 and G-10) combined to less than 15 tons per year.
- (b) Pursuant to PSD Significant Source Modification 141-15828-00013, issued April 30, 2003, and 326 IAC 2-2-5 and 2-2-6 (PSD Requirements: Air quality impacts and increment consumption);
- (1) NO_x emissions from each diesel-fired generator unit (G-8, G-9, and G-10) shall be controlled using retarded ignition timing, and shall not exceed 37.44 pounds per hour.
- (2) SO₂ emissions from each diesel-fired generator unit (G-8, G-9, and G-10) shall not exceed 6.7 pounds per hour.

D.5.5 Particulate Emission Limitations [326 IAC 6-1-2]

Pursuant to PSD Significant Source Modification 141-15828-00013, issued April 30, 2003, for generators G-8, G-9, and G-10, and this permit for G-3 and G-4, and 326 IAC 6-1-2 (a), particulate matter emissions from the each of the diesel fired generators shall not exceed 0.03 grain per dry standard cubic foot.

D.5.6 Sulfur Dioxide Emission Limitations [326 IAC 7-1.1-1] [326 IAC 7-2-1]

Pursuant to PSD Significant Source Modification 141-15828-00013, issued April 30, 2003, and 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations) for generators G-8, G-9, and G-10, and this permit for generators G-3 and G-4, SO₂ emissions from the diesel-fired generators shall not exceed five tenths (0.5) pounds per MMBtu heat input. Pursuant to 326 IAC 7-2-1(c)(3) compliance shall be demonstrated on a calendar month average sulfur content, heat content, fuel consumption, and sulfur dioxide emission rate in pounds per million Btus.

D.5.7 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan of this permit, is required for these generators.

Compliance Determination Requirements

D.5.8 Sulfur Dioxide Emissions and Sulfur Content

Pursuant to PSD Significant Source Modification 141-15828-00013, issued April 30, 2003, for generators G-8, G-9, and G-10, and this permit for G-3 and G-4, compliance shall be determined utilizing one of the following options.

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions from each of the diesel-fired generators do not exceed five-tenths (0.5) pounds per million Btu heat input by:
- (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification, or analyses from approved modified procedures specified in 326 IAC 3-7-4(a), or the use of alternate equivalent procedures, as implemented;

- (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 the diesel-fired generators, 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.5.9 Visible Emissions Notations

Pursuant to PSD Significant Source Modification 141-15828-00013, issued April 30, 2003, for generators G-8, G-9, and G-10, and this permit for G-3 and G-4;

- (a) Visible emission notations of the generator stack exhausts (S-4, S-5, S-6, S-7, and S-8) shall be performed once per working day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) 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.
- (d) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

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

D.5.10 Record Keeping Requirements

- (a) To document compliance with Condition D.5.4 (a), the Permittee shall record the monthly fuel usage of the diesel-fired generators (G-8, G-9, and G-10) combined. The records shall be complete and sufficient to establish compliance with the PM10 limit established in Condition D.5.4 (a).
- (b) To document compliance with Conditions D.5.4 (b)(2) and D.5.6, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken monthly, and shall be complete and sufficient to establish compliance with the SO₂ emission limits established in Conditions D.5.4(b)(2) and D.5.6.
 - (1) Calendar dates covered in the compliance determination period;
 - (2) Calendar month average sulfur content, fuel consumption, and sulfur dioxide emission rate in pounds per MMBtu;

- (3) Actual diesel fuel usage since last compliance determination period and equivalent SO₂ emissions; and

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

- (4) Fuel supplier certifications;
 - (5) The name of the fuel supplier; and,
 - (6) A statement from the fuel supplier that certifies the sulfur content of the diesel fuel.
- (c) To document compliance with Condition D.5.10, the Permittee shall maintain records of visible emission notations of the generator stack exhausts (S-4, S-5, S-6, S-7, and S-8).
 - (d) All records shall be maintained in accordance with Section C - General Record Keeping.

D.5.11 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.5.4 (a) and D.5.6 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or 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.6 FACILITY OPERATION CONDITIONS

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

- (g) Dry cleaning operations, identified as DC-1, consisting of two (2) dry-to-dry systems using

perchloroethylene, with a maximum amount of 1.0 gallon per day disposed of or sold. The air-perchloroethylene gas-vapor streams are routed through two (2) refrigerated condensers for control.

(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.6.1 General Provisions Relating to HAPs [326 IAC 20-1-1][40 CFR 63, Subpart A]

The provisions of 40 CFR 63, Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR 63 Subpart M.

D.6.2 Perchloroethylene Dry Cleaning Facilities NESHAP [326 IAC 20-7-1][40 CFR 63, Subpart M]

- (a) The dry cleaning facility, identified as DC-1, is subject to 40 CFR 63, Subpart M, which is incorporated by reference as 326 IAC 20-7-1.
- (b) The Permittee shall comply with the following conditions:
 - (1) Route the air-perchloroethylene gas-vapor stream contained within each dry cleaning machine through a refrigerated condenser or an equivalent control device as determined according to the procedures listed in 40 CFR 63.325;
 - (2) Close the door of each dry cleaning machine immediately after transferring articles to or from the machine, and keep the door closed at all other times;
 - (3) Operate and maintain each dry cleaning system according to the manufacturer's specifications and recommendations; and
 - (4) Store all perchloroethylene and wastes that contain perchloroethylene in solvent tanks or solvent containers with no perceptible leaks.
- (c) Each refrigerated condenser:
 - (1) Shall be operated to not vent or release the air-perchloroethylene gas-vapor stream contained within each dry cleaning machine to the atmosphere while the dry cleaning machine drum is rotating; and
 - (2) Shall be operated with a diverter valve, if air can pass through the refrigerated condenser when the machine door is open.

D.6.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

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

D.6.4 Monitoring [40 CFR 63.322 and 63.323]

- (a) The Permittee shall minimize leaks of perchloroethylene by the following steps:

- (1) Inspect the following components weekly for perceptible leaks while the dry cleaning system is operating:
 - (A) Hose and pipe connections, fittings, couplings, and valves;
 - (B) Door gaskets and seatings;
 - (C) Filter gaskets and seatings;
 - (D) Pumps;
 - (E) Solvent tanks and containers;
 - (F) Water separators;
 - (G) Muck cookers;
 - (H) Stills;
 - (I) Exhaust dampers;
 - (J) Diverter valves; and
 - (K) Cartridge filter housings.
 - (2) Repair all perceptible leaks detected during the inspections required in (1) within 24 hours. If repair parts must be ordered, either a written or verbal order for those parts shall be initiated within two (2) working days of detecting such a leak. Such repair parts shall be installed within five (5) working days after receipt.
- (b) The Permittee shall measure the temperature of the air-perchloroethylene gas-vapor stream on the outlet side of each refrigerated condenser weekly during the last cool down cycle prior to opening the machine door, with a temperature sensor to determine if it is equal to or less than 7.2 °C (45°F). The temperature sensor shall be used according to the manufacturer's instruction and shall be designed to measure a temperature of 7.2°C (45 °F) to an accuracy of ±1.1°C (±2°F).

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

D.6.5 Record Keeping Requirement [40 CFR 63.323(d), 63.324(d) & (e)]

-
- (a) The Permittee shall keep receipts of perchloroethylene purchases and a log of the following information and maintain such information on site and show upon request for a period of five (5) years:
 - (1) The volume of perchloroethylene purchased each month by the dry cleaning facility as recorded from perchloroethylene purchases; if no perchloroethylene is purchased during a given month then the Permittee would enter zero gallons into the log;
 - (2) The calculation and result of the yearly perchloroethylene consumption determined on the first day of each month performed as follows:
 - (A) Sum the volume of all perchloroethylene purchases made in each of the previous twelve (12) months, as recorded in the log described in Condition D.6.5(a)(1).
 - (B) If no perchloroethylene purchases were made in a given month, then the perchloroethylene consumption for that month is zero gallons.
 - (C) The total sum calculated is the yearly perchloroethylene consumption at the facility.
 - (3) The dates when the dry cleaning system components are inspected for perceptible leaks, as specified in Condition 6.4(a)(1), and the name or location of dry cleaning system components where perceptible leaks are detected;

- (4) The dates of repair and records of written or verbal orders for repair parts associated with leak repair and any temperature adjustments, to demonstrate compliance with Condition 6.4(a)(2) and (b); and
- (5) The date and temperature sensor monitoring results including actions taken to correct temperature exceedances for each refrigerated condenser, as specified in Condition 6.4(b).
- (b) The Permittee shall retain onsite a copy of the design specifications and the operating manuals for each dry cleaning system and each emission control device located at the dry cleaning facility.
- (c) To document compliance with Condition D.6.4(c), the Permittee shall maintain of records of any additional inspections prescribed by the Preventive Maintenance Plan.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping.

D.6.6 Reporting Requirements

- (a) Upon issuance of this permit, the Permittee shall submit within thirty (30) days, to the address listed in Section C - General Reporting Requirements, a notification of compliance status providing the following information and signed by the responsible official who shall certify its accuracy:
 - (1) The yearly perchloroethylene solvent consumption limit based upon the yearly solvent consumption calculated according to 40 CFR 63.323(d);
 - (2) Whether or not they are in compliance with each applicable requirement of 40 CFR 63.322; and
 - (3) All information contained in the statement is accurate and true.
- (b) Should the high twelve month rolling total of perchloroethylene purchases exceed 2,100 gallons, the Permittee shall notify the IDEM, OAQ of this change in facility status.
- (c) The reports required in (a) and (b) of this condition shall be submitted to:

Indiana Department of Environmental
Management Compliance Data Section,
Office of Air Quality 100 North Senate
Avenue,
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

SECTION D.7 FACILITY OPERATION CONDITIONS

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

- (h) One (1) 249 MMBtu/hr boiler identified as Boiler No. 6, equipped with a low NOx burner and flue gas

recirculation (FGR), fired primarily on natural gas with No. 2 fuel oil used as backup fuel. The unit will exhaust through stack S-9 monitored by a certified COM and certified NOx CEM.

(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.7.1 Particulate Matter Limitation (PM) [326 IAC 6-1-2]

Pursuant to 326 IAC 6-1-2 total PM emissions from Boiler No. 6 shall not exceed 0.15 pounds per MMBtu on No. 2 fuel oil or 0.01 grains per dry standard cubic foot on natural gas.

D.7.2 Particulate Matter (PM₁₀) Emission Limitations [326 IAC 2-2-6]

Pursuant to 326 IAC 2-2-5 and 2-2-6 (PSD Requirements), PM₁₀ emissions from Boiler No. 6 shall be limited to less than 0.014 lb/MMBtu and 15.58 tons per twelve (12) month consecutive period when burning No. 2 fuel oil or 0.008 lb/MMBtu and 8.29 tons per twelve (12) month consecutive period when burning natural gas.

D.7.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity from stack S/V 9 shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) 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.

D.7.4 Sulfur Dioxide Emission Limitations [326 IAC 2-2-5, 2-2-6]

Pursuant to 326 IAC 2-2-5 and 2-2-6 (PSD Requirements), SO₂ emissions from Boiler No. 6 shall be limited to less than 0.50 pounds per MMBtu and 545.31 tons per twelve (12) month consecutive period when burning No. 2 fuel oil.

D.7.5 Carbon Monoxide Emission Limitations [326 IAC 2-2-5, 2-2-6]

Pursuant to 326 IAC 2-2-5 and 2-2-6 (PSD Requirements), CO emissions from Boiler No. 6 shall be limited to 0.295 lb/MMBtu and 321.73 tons per twelve (12) month consecutive period when burning No. 2 fuel oil or 0.084 lb/MMBtu and 91.61 tons per twelve (12) month consecutive period when burning natural gas.

D.7.6 New Source Performance Standards Per [40 CFR 60.40b, Subpart Db]

Pursuant to 40 CFR 60, Subpart Db, the following limitations apply:

- (a) Pursuant to 40 CFR 60.44b(a), the NOx emissions from Boiler No. 6 shall not exceed 0.20lb/MMBtu.
- (b) Pursuant to 40 CFR 60.44b(f), opacity may not exceed 20%.
- (c) Only very low sulfur fuel (no greater than 0.5%) will be combusted in the unit.
- (d) Pursuant to 40 CFR 60.43b(b), particulate matter emissions shall not exceed 0.10 lb/MMBtu.

D.7.7 Nitrogen Oxide Emission Limitations [326 IAC 2-3]

When burning natural gas, the NOx emissions rate shall not exceed 0.036 lb/MMBtu based on operation with low NOx burners and necessary flue gas recirculation.

Overall NOx emissions are limited to less than 40 tons per twelve (12) month consecutive period for gas and oil firing combined, as determined by the continuous emissions monitoring system (CEMS) or other means approved by the Department.

D.7.8 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A]

The provisions of 40 CFR Part 60 Subpart A - General Provisions, which are incorporated as 326 IAC 12-1, apply to Boiler No. 6 except when otherwise specified in 40 CFR Part 60 Subpart Db.

D.7.9 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants for Source Categories [40 CFR 63 Subpart A]

Pursuant to 40 CFR Part 63, Subpart A, the Permittee shall comply with an applicable promulgated MACT standard in accordance with the schedule provided in the MACT. The MACT requirements include the applicable General Provisions requirements of 40 CFR Part 63, Subpart A. Pursuant to 40 CFR 63.9(b), the Permittee shall submit an initial notification not later than 120 days after the effective date of the MACT, unless the MACT specifies otherwise. The MACT and the General Provisions of 40 CFR 63, Subpart A will become new applicable requirements, as defined by 326 IAC 2-7-1(6), that must be incorporated into the Part 70 permit.

D.7.10 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters [40 CFR Part 63, Subpart DDDDD]

- (a) The 249 MMBtu/hr boiler identified as Boiler No. 6 is subject to the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters [40 CFR Part 63, Subpart DDDDD].
- (b) The PM emissions shall not exceed 0.03 pounds per MMBtu of heat input, Hydrogen Chloride emissions shall not exceed 0.0005 pounds per MMBtu of heat input and CO emissions shall not exceed 400 parts per million (ppm) by volume on a dry basis corrected to 3% oxygen (30 day rolling average for units 100 MMBTU/hour or greater).
- (c) If emission limits included in this article conflict with, or are inconsistent with, any other emission limitations established in this permit, the more stringent limits shall apply.

D.7.11 Operation Standards [326 IAC 2-1.1-5 (a)(4)] [40 CFR 261] [40 CFR 279] [329 IAC 13]

- (a) The burning of hazardous waste, as defined by 40 CFR 261, is prohibited in Boiler No. 6.
- (b) If used, any boiler tube chemical cleaning waste liquids evaporated in the boiler shall only contain the cleaning solution and two full volume boiler rinses. Any boiler tube chemical cleaning waste liquids evaporated in the boiler, and any used oil combusted shall meet the toxicity characteristic requirements for non-hazardous waste.

D.7.12 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for Boiler No. 6.

Compliance Determination Requirements

D.7.13 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

Within 60 days of achieving maximum production rate, but no later than 180 days after initial

startup, the Permittee shall perform opacity, CO, NO_x, PM and PM10 tests utilizing methods approved by the Commissioner to show compliance with the applicable limits. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the emissions units are in compliance.

D.7.14 Fuel Oil Sulfur Content Limit

To demonstrate compliance with condition D.7.4 when Boiler No. 6 combusts fuel oil, the sulfur content of the fuel oil combusted shall not exceed 0.5 percent by weight. Sulfur content will be demonstrated to have met this limit pursuant to 326 IAC 3-7-4. During No. 2 fuel oil fire, Boiler No. 6 will combust only very low sulfur oil as defined in 40 CFR Part 60, Subpart Db.

D.7.15 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 3] [326 IAC 7-2] [326 IAC 7-1.1-2]

- (a) Pursuant to 326 IAC 7-2-1(c)(3), the Permittee shall demonstrate that when combusting fuel oil in Boiler No. 6, the sulfur dioxide emissions 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, with the prior approval of the department, modify the procedures specified in 326 IAC 3-7-4(a), use alternate equivalent procedures, or 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)]

D.7.16 Continuous Emissions Monitoring [326 IAC 3-5]

- (a) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), the continuous opacity monitoring system (COM) and the continuous emission monitoring system (CEM) for boiler No. 6, when combusting fuel oil or natural gas, shall be calibrated, maintained, and operated for measuring opacity and NO_x emissions respectively which meet all applicable performance specifications of 326 IAC 3-5-2.
- (b) The continuous opacity monitoring system (COM) and the continuous emission monitoring system (CEM) are subject to the monitor system certification requirements pursuant to 326 IAC 3-5-3.
- (c) Except as noted in C.12 (Maintenance of Continuous Emission Monitoring Equipment) and C.13 (Monitoring Methods) regarding VE and NO_x alternative monitoring, nothing in this permit shall excuse the Permittee from complying with the requirements to operate the continuous opacity monitoring system (COM) and the continuous emission monitoring

system (CEM) pursuant to 326 IAC 3-5.

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

D.7.17 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

When Boiler No. 6 is exhausting to stack S- 9, and it is combusting fuel oil, opacity will be monitored in accordance with 40 CFR Part 60, Subpart Db.

Record Keeping and Reporting Requirements

D.7.18 Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

(a) To document compliance with the SO₂ Conditions D.7.4 and D.7.15 the Permittee shall maintain records in accordance with (1) through (6) below. Records shall be complete and sufficient to establish compliance with the SO₂ limit as required in Conditions D.7.4 and D.7.15.

- (1) Calendar dates covered in the compliance determination period;
- (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;
- (3) 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 of the fuel oil.

- (b) Boiler No. 6 is subject to applicable emissions limitations provided in CFR 40 Part 60, Subpart Db. Compliance will be demonstrated in accordance with Subpart Db provisions.
- (c) Boiler No. 6 is subject to applicable emissions limitations provided in 40 CFR Part 60, Subpart DDDDD. Compliance will be demonstrated in accordance with Subpart DDDDD provisions.
- (d) To document compliance with D.7.12, the Permittee shall maintain records of the results of all boiler inspections, including any additional inspections prescribed by the Preventive Maintenance Plan.
- (e) To document compliance with D.7.6, D.7.7 and D.7.16 the Permittee shall maintain records of the results of continuous opacity monitoring (COM) and the continuous emission monitoring (CEM) systems.
- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.7.19 Reporting Requirements

- (a) A quarterly summary of the information to document compliance with Conditions D.7.1, D.7.2, and D.7.4 through D.7.7 under natural gas and fuel oil firing shall be submitted to the address listed in Section C - General Reporting Requirements, within thirty (30) days after the

end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) All reports shall be submitted in accordance with Section C - General Reporting Requirements, of this permit.

SECTION D.8 FACILITY OPERATION CONDITIONS

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

This stationary source also includes the following insignificant activities which are specifically regulated, as

defined in 326 IAC 2-7-1(21):

- (a) One (1) underground diesel fuel storage tank for which a construction permit was issued in 2003 for generators G-8, G-9, and G-10, identified as UST, with maximum storage capacity of 30,000 gallons. [326 IAC 12-1] [40 CFR 60, Subpart A]
- (b) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3]

(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.8.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A]

Pursuant to PSD Significant Source Modification 141-15828-00013, issued April 30, 2003, the provisions of 40 CFR 60 Subpart A - General Provisions, which are incorporated as 326 IAC 12-1, apply to one (1) underground diesel fuel storage tank, identified as UST, described in this section except when otherwise specified in 40 CFR 60 Subpart Kb.

D.8.2 Standards of Performance for Volatile Organic Liquid Storage Vessels [326 IAC 12] [40 CFR 60.116b]

Pursuant to PSD Significant Source Modification 141-15828-00013, issued April 30, 2003, the one underground diesel storage tank, identified as UST, shall comply with New Source Performance Standards (NSPS), 326 IAC 12 (40 CFR Part 60.116b, Subpart Kb). 40 CFR 60.116b, paragraphs (a) and (b) require the Permittee to maintain accessible records showing the dimensions of each storage vessel and an analysis showing the capacity of the storage vessel. Records shall be kept for the life of the storage tank.

D.8.3 Volatile Organic Compounds (VOC)

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.8.4 Volatile Organic Compounds (VOC)

(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 of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
 - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
 - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

PART 70 OPERATING PERMIT CERTIFICATION

Source Name: University of Notre Dame du Lac
Source Address: 100 Facilities Building, Notre Dame, Indiana 46556
Mailing Address: 100 Facilities Building, Notre Dame, Indiana, 46556
Part 70 Permit No.: T141-7412-00013

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Phone:

Date:

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

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

Source Name: University of Notre Dame du Lac
Source Address: 100 Facilities Building, Notre Dame, Indiana 46556
Mailing Address: 100 Facilities Building, Notre Dame, Indiana, 46556
Part 70 Permit No.: T141-7412-00013

This form consists of 2 pages

Page 1 of 2

- | |
|--|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none">C 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); andC The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16. |
|--|

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

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

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

Page 2 of 2

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

Form Completed by:

Title / Position:

Date:

Phone:

A certification is not required for this report.

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

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

Source Name: University of Notre Dame du Lac
Source Address: 100 Facilities Building, Notre Dame, Indiana 46556
Mailing Address: 100 Facilities Building, Notre Dame, Indiana, 46556
Part 70 Permit No.: T141-7412-00013

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.		
Report Period:		
Beginning:		
Ending:		
<u>Boiler Affected</u>	<u>Alternate Fuel</u>	<u>Days burning alternate fuel</u>
		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:

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

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

Source Name: University of Notre Dame du Lac
 Source Address: 100 Facilities Building, Notre Dame, Indiana 46556
 Mailing Address: 100 Facilities Building, Notre Dame, Indiana, 46556
 Part 70 Permit No.: T141-7412-00013

Months: _____ **to** _____ **Year:** _____

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> 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:	

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

Form Completed By:

Title/Position:

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: University of Notre Dame du Lac
 Source Address: 100 Facilities Building, Notre Dame, Indiana 46556
 Mailing Address: 100 Facilities Building, Notre Dame, Indiana, 46556
 Part 70 Permit No.: T141-7412-00013
 Facility: Boilers (B-2, B-3, and B-4)
 Parameter: SO2 emissions, coal analysis (B-2, B-3, B-4), coal usage (B-2, B-3, B-4)
 Limit: SO2 emissions from each boiler shall not exceed 6.0 pounds per million Btu when using coal.

QUARTER:

YEAR:

Month	(A)	(B)	$[2 \times (A) \times 2000] / [(B)]$
	Monthly Average Coal Sulfur Content* (%)	Monthly Average Coal Heat Content* (MMBtu/lb)	Equivalent Sulfur Dioxide Emissions (lb/MMBtu)
Month 1			
Month 2			
Month 3			

* Calculate the weighted sulfur and heat content for coal based on weighted average of daily coal usage

- 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: University of Notre Dame du Lac
 Source Address: 100 Facilities Building, Notre Dame, Indiana 46556
 Mailing Address: 100 Facilities Building, Notre Dame, Indiana, 46556
 Part 70 Permit No.: T141-7412-00013
 Facility: (B-1, B-4, B-5, and B-6)
 Parameter: SO₂ emissions, sulfur content (B-1, B-4, B-5, and B-6), fuel oil usage (B-1, B-4, B-5, and B-6)
 Limit: SO₂ emissions from boiler B-1 (Residual or No.6 fuel oil) shall not exceed 1.6 lb/MMBtu;
 SO₂ emissions from boiler B-4, B-5, B-6 (Distillate or No.2 fuel oil) shall not exceed 0.5 lb/MMBtu

QUARTER:

YEAR:

Month	Monthly Average Fuel Oil Sulfur Content* (%)		Monthly Average Fuel Oil Heat Content* (MMBtu/gallon)		Fuel Oil Consumption (Total Gallons)		Equivalent Sulfur Dioxide Emissions (lb/MMBtu)	
	B-1	B-4, B-5, B-6	B-1	B-4, B-5, B-6	B-1	B-4, B-5, B-6	B-1	B-4, B-5, B-6
Month 1								
Month 2								
Month 3								

* Calculate the weighted sulfur and heat content for coal based on weighted average of daily coal usage

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: University of Notre Dame du Lac
Source Address: 100 Facilities Building, Notre Dame, Indiana 46556
Mailing Address: 100 Facilities Building, Notre Dame, Indiana, 46556
Part 70 Permit No.: T141-7412-00013
Facility: Diesel fired generators, G-3, G-4, G-8, G-9, and G-10
Parameter: Sulfur Dioxide (SO2)
Limit: 0.5 pounds per million Btu heat input

QUARTER:

YEAR:

Month	Monthly Average Fuel Oil Sulfur Content (%)	Monthly Average Fuel Oil Heat Content (MMBtu/gallon)	Fuel Oil Consumption (Total Gallons)	Equivalent Sulfur Dioxide Emissions (lbs/MMBtu)
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: University of Notre Dame du Lac
Source Address: 100 Facilities Building, Notre Dame, IN 46556
Mailing Address: 100 Facilities Building, Notre Dame, IN 46556
Part 70 Permit No.: T141-7412-00013
Facility: G-8, G-9 and G-10
Parameter: Total Combined Fuel Usage (gallons per 12 consecutive month period.)
Limit: 3,076,600 gallons of diesel per 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**

Technical Support Document (TSD) for a Part 70 Significant Permit
Modification.

Source Description and Location

Source Name:	University of Notre Dame du Lac
Source Location:	100 Facilities Building, Notre Dame, IN 46556
County:	St. Joseph
SIC Code:	8221
Operation Permit No.:	T 141-7412-00013
Operation Permit Issuance Date:	June 30, 2004
Significant Permit Modification No.:	141-22724-00013
Permit Reviewer:	Ganesh Srinivasan/EVP

Existing Approvals

The source was issued Part 70 Operating Permit No. 141-7412-00013 on June 30, 2004. The source has since received the following approvals:

- (a) First Significant Source Modification (141-15828-00013), issued on April 30, 2003;
- (b) Second Significant Source Modification (141-20012-00013), issued on August 24, 2005;
- (c) First Significant Permit Modification (141-20402-00013), issued on September 6, 2005; and
- (d) First Minor Permit Modification (141-21977-00013), issued on February 21, 2006.

County Attainment Status

The source is located in St. Joseph County.

Pollutant	Status
PM10	Attainment
PM2.5	Attainment
SO ₂	Attainment
NO ₂	Attainment
1-hour Ozone	Attainment
8-hour Ozone	Nonattainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) 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_x emissions are considered when evaluating the rule applicability relating to the ozone standards. St. Joseph County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.
- (b) St. Joseph County has been classified as attainment for PM2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM2.5 emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as a surrogate for PM2.5 emissions.
- (c) St. Joseph County has been classified as attainment or unclassifiable for the remaining

criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(d) Fugitive Emissions

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, fugitive emissions are not counted toward the determination of PSD 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 ₂	> 250
VOC	< 100
CO	> 100
NO _x	> 250
Single HAP	> 10
Combination HAPs	> 25

- (a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because an attainment regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).
- (b) This existing source is a major stationary source, under EO (326 IAC 2-3), because a nonattainment regulated pollutant is emitted at a rate of 100 tons per year or more, and it is not one of the twenty-eight (28) listed source categories.
- (c) These emissions are based upon the Title V Permit issued on June 30, 2004.

Actual Emissions

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

Pollutant	Actual Emissions (tons/year)
PM	89.0
PM10	31.0
SO ₂	3156.0
VOC	4.0
CO	78.0
NO _x	599.0
HAP	Not Reported

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a significant permit modification application, submitted by University of Notre Dame du Lac on February 24, 2006, relating to demonstrating compliance with the limited PM10 Potential to Emit (PTE) by limiting the total combined annual fuel usage for G-8, G-9 and G-10 to 3,076,380 gallons/year based upon a maximum per engine burn rate of 135 gallons/hour. This permit modification will ensure that the PM10 PTE will remain less than the PSD Significant Level (15 tons/year) and therefore renders the requirements of PSD not applicable for PM10. The source passed the stack test for PM, which has a PTE of less than 25 tons per year. The following is a list of the modified emission units:

- (a) Three (3) diesel-fired generators, for which a construction permit was issued in 2003, identified as G-8, G-9, and G-10, each with a maximum rated capacity of 2,593 brake horsepower (6.59 MMBtu per hour heat input each), exhausting to stacks S-6, S-7, and S-8, respectively, with total additional generator capacity of 5.79 MW.

Pursuant to SSM 141-15828-00013, issued on April 30, 2003, the Permittee has an existing emission rate limit of 0.87 pounds of PM10 per hour. A stack test was conducted on January 26, 2006 with IDEM onsite. Based on the EPA's only recommended PM10 test method for high temperature diesel-fired exhaust flow these test results were inconclusive. Hence, the Permittee decided to use the emission factor obtained for PM as the emission factor for PM10. In response, the Permittee has requested a revised PM10 emission limit of 1.312 lb/hr and a new fuel usage limit to limit PM10 Potential to Emit from the generators to less than 15 tons per year and render the requirements of 326 IAC 2-2 PSD not applicable. Although the source was not able to meet the existing emission limit of 0.87 pound of PM10 per hour, the source's actual fuel usage has been approximately 182778 gallons per 12 consecutive month period limit for G-8, G-9 and G-10 combined which is less than the new proposed fuel usage limit. Based on the new emission factor of 0.0097 pound per gallons obtained from the stack test conducted on January 26, 2006 and actual fuel usage, the PM10 emissions from G-8, G-9 and G-10 combined has been less than 15 tons per 12 consecutive month period since the issuance of SSM141-15828-00013.

In order to ensure that sources are not potentially liable for violation of the Clean Air Act, the OAQ is following the U.S. EPA's guidance to regulate PM10 emissions as surrogate for PM2.5 emissions pursuant to the Non-attainment New Source Review requirements

The following table summarizes the changes proposed for this permit modification:

Emission Unit	PM10 Existing Limits SSM 141-15828-00013	PM10 Proposed New Limits SPM 141-22724-00013
G-8, G-9 and G-10	PM10 = 0.87 lb/hour	PM10 = 1.312 lb/hour *
		3,076,600 gallons/year 0.0097 lb PM10/gallon
	PM10 < 15 tons/year	PM10 < 15 tons/year

* Based on Stack Test conducted on January 26, 2006.

Enforcement Issues

There are no enforcement actions pending.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
S/V 6	Diesel-fired Generator	30	1.33	15,676	899
S/V 7	Diesel-fired Generator	30	1.33	15,676	899
S/V 8	Diesel-fired Generator	30	1.33	15,676	899

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 Title V permit is being modified through a Significant Permit Modification. This modification request does not qualify as minor permit modification or as an administrative amendment under 326 IAC 2-7-11 or 325 IAC 2-7-12 (a), respectively. Incorporation of a revised PM10 emission limit shall involve significant changes in existing record keeping requirements. Therefore, pursuant to 326 IAC 2-7-12 (d)(1) the modification shall be processed in accordance with the procedures in 326 IAC 2-7-12 (d)

The requested modifications do not change the potential to emit of any regulated pollutants. However, 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 a new record keeping condition has been added for the Permittee to remain in compliance with the new fuel usage limit and PM10 emission limit.

Federal Rule Applicability Determination

The modification does not trigger any new state applicable federal rules.

State Rule Applicability Determination

The modification does not trigger any new applicable state rules.

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.

There are no new compliance requirements for this modification.

Proposed Changes

The changes initiated by IDEM listed below have been made to Part 70 Operating Permit No. 141-7412-00013. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

1. 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 deleted paragraph (b) of Section B – Preventive Maintenance, and has amended the Section B – Emergency Provisions condition as follows:

**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]**

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.
- ~~(b)~~ **(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.
- ~~(e)~~ **(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 does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- ~~(d)~~ **(c)** To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.11 Emergency Provisions [326 IAC 2-7-16]

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

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

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or
Telephone Number: 317-233-0178 (ask for Compliance Section)
Facsimile Number: 317-233-6865
 - (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

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

2. IDEM has clarified the Section B Operational Flexibility condition as follows:

B.20 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:
 - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
 - (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
 - (3) The changes do not result in emissions which exceed the ~~emissions allowable under~~ **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, ~~P. O. Box 6015~~
Indianapolis, Indiana ~~46206-6015~~ **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, ~~on a rolling five (5) year basis~~, all such changes and emissions trading **trades** that are subject to 326 IAC 2-7-20(b), (c), or (e). ~~and makes~~ **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 ~~in emissions in~~ 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.

3. IDEM realizes that these specifications in Condition C.14 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 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 Condition C.14.

C.13 ~~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~~ **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 ~~normal~~ **maximum** reading **for the normal range** shall be no less than twenty percent (20%) of full scale ~~and be accurate within plus or minus two percent (2%) of full scale reading.~~
- (b) ~~Whenever a condition in this permit requires the measurement of voltage or current 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 five percent (2%) of full scale reading.~~

- ~~(c) Whenever a condition in this permit requires the measurement of a temperature or flow rate, 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 (2%) of full scale reading.~~
- ~~(d) The Preventive Maintenance Plan for the pH meter shall include calibration using known standards. The frequency of calibration shall be adjusted such that the typical error found at calibration is less than one pH point.~~
- (e) (b)** The Permittee may request **that** the IDEM, OAQ approve the use of a pressure gauge or ~~other~~ **an** instrument that does not meet the above specifications provided the Permittee can demonstrate **that** an alternative ~~pressure gauge or other~~ instrument specification will adequately ensure compliance with permit conditions requiring the measurement of ~~pressure drop or other~~ **the** parameters.

4. 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. The Section D conditions that refer to this condition have been revised to reflect the new condition title, and the following changes have been made to the Section C condition:

C.16 ~~Compliance Response Plan – Preparation, Implementation, Records, and Reports~~
Response to Excursions or Exceedances [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 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 ten (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 notification shall also include the status of the applicable compliance monitoring parameter with respect to normal, and the results of the response actions taken up to the time of notification.~~
- (4) ~~Failure to take reasonable response steps shall be considered a deviation from 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 "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.~~
- (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**

- (b) Reasonable response steps shall be taken in accordance with Section C - ~~Compliance Response Plan—Preparation, Implementation, Records and Reports~~ **Response to Excursions and 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 and Exceedances**, shall be considered a deviation of this permit.

D.3.12 Alstom Switched Integrated Rectifier (SIR) Unit [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 B-4 is in operation and combusting coal, by measuring and recording the number of SIR Units in service, their primary and secondary voltages, and their currents.
- (b) Reasonable response steps shall be taken in accordance with Section C - ~~Compliance Response Plan—Preparation, Implementation, Records and Reports~~ **Response to Excursions and Exceedances**, and Reports whenever the percentage of SIR Units in service falls below 50 percent (50%). SI R Unit failure resulting in less than 50 percent (50%) availability 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 and Exceedances** shall be considered a deviation of this permit.

D.3.13 Opacity Readings [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

While boiler B-4 is operating and combusting coal or fuel oil;

- (a) In the event of opacity exceeding twenty percent (20%) 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 and Exceedances** such that the cause(s) of the excursion are identified and corrected and opacity levels are brought back below twenty percent (20%). Examples of expected response steps include, but are not limited to, boiler loads being reduced, adjustment of flue gas conditioning rate, and SIR Units being returned to service.
- (b) Opacity readings in excess of twenty percent (20%) but not exceeding the opacity limit for boiler B-4 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 and Exceedances**, shall be considered a deviation of this permit.

D.4.8 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) Visible emission (VE) notations of the boiler B-5 stack exhaust, S-3, shall be performed once per ~~shift~~ **day** during normal daylight operations while combusting fuel oil. 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~~ **Response to Excursions and 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 and Exceedances**, shall be considered a deviation of 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 boiler.

D.5.10 Visible Emissions Notations

Pursuant to PSD Significant Source Modification 141-15828-00013, issued April 30, 2003, for generators G-8, G-9, and G-10, and this permit for G-3 and G-4;

- (a) Visible emission notations of the generator stack exhausts (S-4, S-5, S-6, S-7, and S-8) shall be performed once per working ~~shift~~ **day** during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) 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.
- (d) ~~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 deviation from this permit.

D.6.4 Monitoring [40 CFR 63.322 and 63.323]

- (a) The Permittee shall minimize leaks of perchloroethylene by the following steps:
 - (1) Inspect the following components weekly for perceptible leaks while the dry cleaning system is operating:
 - (A) Hose and pipe connections, fittings, couplings, and valves;
 - (B) Door gaskets and seatings;
 - (C) Filter gaskets and seatings;
 - (D) Pumps;
 - (E) Solvent tanks and containers;
 - (F) Water separators;
 - (G) Muck cookers;
 - (H) Stills;
 - (I) Exhaust dampers;
 - (J) Diverter valves; and
 - (K) Cartridge filter housings.
 - (2) Repair all perceptible leaks detected during the inspections required in (1) within 24 hours. If repair parts must be ordered, either a written or verbal order for those parts shall be initiated within two (2) working days of detecting such a leak. Such repair parts shall be installed within five (5) working days after receipt.
- (b) The Permittee shall measure the temperature of the air-perchloroethylene gas-vapor stream on the outlet side of each refrigerated condenser weekly during the last cool down cycle prior to opening the machine door, with a temperature sensor to determine if it is equal to or less than 7.2 °C (45°F). The temperature sensor shall be used according to the manufacturer's instruction and shall be designed to measure a temperature of 7.2°C (45 °F) to an accuracy of

- (a) Pursuant to PSD Significant Source Modification 141-15828-00013, issued on April 30, 2003, and 326 IAC 2-2-2 (PSD requirements: Applicability) in order to render the requirements of 326 IAC 2-2 PSD not applicable for PM10 emissions, the combined fuel usage from the diesel-fired generator units (G-8, G-9, and G-10) shall be limited to less than 3,076,600 gallons of diesel fuel per twelve (12) consecutive month period, with compliance determined at the end of each month. PM10 emissions shall not exceed 0.0097 lb PM10/gallon diesel oil burned. This usage limit will limit PM10 (including filterable and condensable) emissions from all diesel-fired generators (G-8, G-9 and G-10) combined to less than 15 tons per year.

7. Since the Permittee conducted a one time stack test to determine emission factors for NOx, PM and PM10 on January 26, 2006, this permit condition is no longer valid. The Permittee has chosen to take a fuel usage limit to remain under 15 tons per year of PM10 emissions which makes PSD requirements not applicable.

~~D.5.8 Testing Requirements [326 IAC 3-6] [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]~~

~~Pursuant to PSD Significant Source Modification 141-15828-00013, issued April 30, 2003, within 60 days of achieving maximum production rate, but no later than 180 days after initial startup, the Permittee shall perform NOx, PM, and PM10 testing, utilizing methods approved by the Commissioner, on a representative number of diesel-fired generators (G-8, G-9, G-10) to comply with Conditions D.5.4 (a) and D.5.5. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the emissions units are in compliance. These tests shall be performed in accordance with Section C- Performance Testing.~~

~~D.5.1014 Record Keeping Requirements~~

- (a) **To document compliance with Condition D.5.4 (a), the Permittee shall record monthly fuel usage for each of the diesel-fired generators (G-8, G-9, and G-10). The records shall be complete and sufficient to establish compliance with the PM10 limit established in Condition D.5.4 (a).**

- ~~(a)(b)~~ To document compliance with Conditions D.5.4 (b)(2) and D.5.6, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken monthly, and shall be complete and sufficient to establish compliance with the SO₂ emission limits established in Conditions D.5.4(b)(2) and D.5.6.

- (1) Calendar dates covered in the compliance determination period;
- (2) Calendar month average sulfur content, fuel consumption, and sulfur dioxide emission rate in pounds per MMBtu;
- (3) Actual diesel fuel usage since last compliance determination period and equivalent SO₂ emissions; and

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

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

- ~~(b)(c)~~ To document compliance with Condition D.5.10, the Permittee shall maintain records of visible emission notations of the generator stack exhausts (S-4, S-5, S-6, S-7, and S-8).

- (e)(d) All records shall be maintained in accordance with Section C - General Record Keeping.
8. A new Part 70 Quarterly Reporting form has been added for recording the fuel usage of the diesel – fired generators G-8, G-9 and G-10.

Conclusion and Recommendation

This proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Permit Modification No. 141-22724-00013. The staff recommends to the Commissioner that this Part 70 Significant Permit Modification be approved.