



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
Toll Free (800) 451-6027  
[www.idem.IN.gov](http://www.idem.IN.gov)

TO: Interested Parties / Applicant

DATE: July 29, 2010

RE: Indiana Michigan Power/ 147-29169-00020

FROM: Matthew Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

## Notice of Decision: Approval – Effective Immediately

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

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

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

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

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



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## Part 70 Operating Permit OFFICE OF AIR QUALITY

**Indiana Michigan Power Co. Rockport Plant  
dba American Electric Power  
2791 North US Highway 231  
Rockport, Indiana 47635**

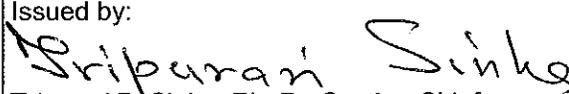
(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

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.: T147-6786-00020	
Issued by: Original Signed By:	Issuance Date: August 7, 2006
Nisha Sizemore, Permits Branch Chief Office of Air Quality	Expiration Date: August 7, 2011

Significant Permit Modification No. 147-27400-00020, issued May 11, 2009

Significant Permit Modification No.: T147-29169-00020	
Issued by:	Issuance Date: July 29, 2010
 Tripurari P. Sinha, Ph. D., Section Chief Permits Branch Office of Air Quality	Expiration Date: August 7, 2011

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#### F Reserved

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Certification  
Emergency Occurrence Report  
Quarterly Reports  
Quarterly Deviation and Compliance Monitoring Report

Attachment A – Standards of Performance for Coal Preparation Plants [40 CFR Part 60, Subpart Y]  
[326 IAC 12]

Attachment B – TITLE IV (ACID RAIN) PERMIT RENEWAL

## SECTION A

## SOURCE SUMMARY

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

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

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The Permittee owns and operates a stationary electric generating station.

Source Address:	2791 North US Highway 231, Rockport, Indiana 47635
General Source Phone Number:	812-649-9171
SIC Code:	4911
County Location:	Spencer
Source Location Status:	Nonattainment for PM <sub>2.5</sub> standard Attainment for all other criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD Rules Major Source, under Nonattainment NSR Rules for PM <sub>2.5</sub> Major Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

### A.2 Emission Units and Pollution Control Equipment Summary

[326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(15)]

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

- (a) One (1) pulverized coal opposed wall fired dry bottom boiler, identified as MB1 (Main Boiler 1), with construction commenced in 1977 and completed in 1984, with a design heat input capacity of 12,374 million Btu per hour, with an electrostatic precipitator (ESP) system for control of particulate matter. Low NO<sub>x</sub> burners and an overfire air (OFA) system have been installed for NO<sub>x</sub> control. No. 2 fuel oil is fired during startup, shutdown, and load stabilization periods. No. 2 fuel oil may also be burned to maintain boiler temperature to ensure boiler availability on short notice, and to maintain boiler temperature required during chemical cleaning. One (1) powdered activated carbon (PAC) injection system, identified as ACI, permitted in 2008 and 2010, with a combined maximum capacity of injecting 2,100 pounds of activated carbon per hour into the exhaust ductwork for Boilers 1 and 2 (MB1 and MB2). Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO<sub>x</sub>) and for sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitoring (COM) system are located on the common stack.
- (b) One (1) pulverized coal opposed wall fired dry bottom boiler, identified as MB2 (Main Boiler 2), with construction commenced in 1977 and completed in 1989, with a design heat input capacity of 12,374 million Btu per hour, with an electrostatic precipitator (ESP) system for control of particulate matter. Low NO<sub>x</sub> burners and an overfire air (OFA) system for NO<sub>x</sub> control are scheduled for installation in 2004. No. 2 fuel oil is fired during startup, shutdown, and load stabilization periods. No. 2 fuel oil may also be burned to maintain boiler temperature to ensure boiler availability on short notice, and to maintain boiler temperature required during chemical cleaning. One (1) powdered activated carbon (PAC) injection system, identified as ACI, permitted in 2008 and 2010, with a combined maximum capacity of injecting 2,100 pounds of activated carbon per hour into the exhaust ductwork for Boilers 1 and 2 (MB1 and MB2).

Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO<sub>x</sub>) and for sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitoring (COM) system are located on the common stack.

- (c) Two (2) No. 2 fuel oil-fired boilers, identified as Auxiliary Boiler 1 and Auxiliary Boiler 2, with construction commenced in 1977 and completed in 1983, each with a design heat input capacity of 603 million Btu per hour, both exhausting through Stack AB12.
- (d) A coal storage and handling system for MB1 and MB2, with installation started in 1981 and completed in 1984, consisting of the following equipment:
  - (1) Two (2) barge unloading stations, identified as Stations 1 and 2, each with a baghouse, or a dust extraction system using water injection, and foam or water spray for particulate control, each with a bucket elevator with foam or water spray and partial enclosure for particulate control, and Conveyors 1 and 2 with water spray for particulate control.
  - (2) Enclosed conveyor systems, including fully and partially enclosed conveyors, with foam, water, or other equivalent dust suppression measures for particulate control, with the transfer points enclosed by buildings with baghouses, or a dust extraction system using water injection, for particulate control at Stations 5, 6 and 7. A stacker reclaim system is used to drop coal to the storage pile(s). The coal handling system has a design throughput capacity of 4000 tons per hour up to the stacker-reclaimers, and 1600 tons per hour from Station 7E and 7W to the coal bunkers in the units.
  - (3) Coal storage pile(s), with fugitive dust emissions controlled by watering.
  - (4) Coal crushing Station 8, with a maximum throughput of 2618 tons per hour for the east system and 2542 tons per hour for the west system, with a baghouse for particulate control, or a dust extraction system using water injection.
  - (5) Blending and transfer Station 9, with foam, water, or other equivalent dust suppression measures for particulate control.
  - (6) Blending and transfer Station 10.
  - (7) Two (2) storage silos for Station 9, with foam, water, or other equivalent dust suppression measures for particulate control.
  - (8) Coal sampling and transfer Stations A and D, each with a baghouse for particulate control, or a dust extraction system using water injection.
  - (9) Bunkering conveyors AB, BC, CB, DC, and FD, each fully enclosed, each with a baghouse for particulate control, or a dust extraction system using water injection.
  - (10) Fourteen (14) storage silos for Unit 1, with particulate control as follows:
    - (A) four (4) bag type filters, two for each set of seven bunkers on each side of Main Boiler 1, or
    - (B) one or more dust extraction systems using water injection.

- (11) Fourteen (14) storage silos for Unit 2, with particulate control as follows:
  - (A) four (4) bag type filters, two for each set of seven bunkers on each side of Main Boiler 2, or
  - (B) one or more dust extraction systems using water injection.
- (e) Dry fly ash handling:
  - (1) Fly ash handling for MB1, installed in approximately 1982, including the following:
    - (A) Vacuum system to convey fly ash to four (4) storage silos with particulate emissions controlled by a bin vent filter on each silo, with a maximum throughput rate of 58 tons per hour.
    - (B) Each of the four fly ash silos is equipped with two telescoping chutes for loading dry ash into tanker trucks. Each chute has a vacuum system to control dust and transport it back into the storage silo. Process rate for loading the tanker trucks is estimated at 300 tons per hour.
    - (C) Each of the four fly ash silos is equipped with two wet ash conditioners, for loading ash into open trucks for disposal. Dust is controlled by mixing water with the ash prior to depositing the ash in the truck. Process rate is estimated at 150 tons per hour.
    - (D) Water spray curtains on each silo can be used to prevent dust generated in the loading operation from leaving the loading gallery in the silo base, if the outdoor temperature is above freezing.
  - (2) Fly ash handling for MB2, with installation completed in 1986, including the following:
    - (A) Vacuum system to convey fly ash to four (4) storage silos with particulate emissions controlled by two (2) bin vent filters on each silo, with a maximum throughput rate of 58 tons per hour.
    - (B) Each of the four fly ash silos is equipped with two telescoping chutes for loading dry ash into tanker trucks. Each chute has a vacuum system to control dust and transport it back into the storage silo. Process rate for loading the tanker trucks is estimated at 300 tons per hour.
    - (C) Each of the four fly ash silos is equipped with two wet ash conditioners, for loading ash into open trucks for disposal. Dust is controlled by mixing water with the ash prior to depositing the ash in the truck. Process rate is estimated at 150 tons per hour.
    - (D) Water spray curtains on each silo can be used to prevent dust generated in the loading operation from leaving the loading gallery in the silo base, if the outdoor temperature is above freezing.
  - (3) One (1) fly ash barge loading facility, with pneumatic unloading system from covered truck to covered barge with a maximum throughput rate of 52.5 tons ash per hour, with a baghouse on a river cell for particulate control.

- (4) Rail loading equipment associated with the former fly ash temporary storage facility, with a maximum throughput rate of 52.5 tons ash per hour. The loader has a baghouse for dust control.

#### PAC Handling and Storage Operations

- (f) Two (2) pneumatic truck unloading stations and one (1) railcar unloading station for transferring activated carbon from transports to storage silos, permitted in 2008 and in 2010, with particulate emissions controlled by a bin vent filter.
- (g) Two (2) silos for storing activated carbon, each with a maximum storage capacity of 800 tons, permitted in 2008 and 2010, with particulate emissions from each silo controlled by a bin vent filter.
- (h) Eight (8) capacity metering pressure tanks, each with a maximum capacity of injecting 500 pounds per hour of activated carbon into the exhaust ductwork, permitted in 2008 and in 2010, with particulate emissions controlled by a bin vent filter.

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

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

- (a) Space heaters using the following fuels: Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) Btu per hour and firing fuel containing less than three-tenths (0.3) percent sulfur by weight, including space heaters WHU-1 and WHU-2, each with 1.1 MMBtu/hr heat input capacity. [326 IAC 7]
- (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) Cleaners and solvents characterized as follows: [326 IAC 8-3]
  - (1) Having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38 degrees C (100°F) or;
  - (2) Having a vapor pressure equal to or less than 0.7 kPa; 5mm Hg; or 0.1 psi measured at 20°C (68°F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.
- (d) Coal bunker and coal scale exhausts and associated dust collector vents. [326 IAC 6-3][326 IAC 12][40 CFR 60, Subpart Y]
- (e) Other activities or categories not previously identified with potential, uncontrolled emissions equal to or less than thresholds require listing only: Pb 0.6 ton per year or 3.29 pounds per day, SO<sub>2</sub> 5 pounds per hour or 25 pounds per day, NO<sub>x</sub> 5 pounds per hour or 25 pounds per day, CO 25 pounds per day, PM 5 pounds per hour or 25 pounds per day, VOC 3 pounds per hour or 15 pounds per day:

Ponded bottom ash handling and management, including dredging bottom ash ponds and loading material into trucks. [326 IAC 6-4]
- (f) Wet process bottom ash handling, with hydroveyors conveying ash to storage ponds, with water level sufficient to prevent ash re-entrainment.
- (g) Emergency generators as follows: Three (3) No. 2 fuel oil-fired emergency diesel

generators designated as DG1, DG2, and DG3, each with 25.16 MMBtu/hr heat input capacity. [326 IAC 7][326 IAC 2]

- (h) Six (6) No. 2 fuel oil-fired space heaters designated as WHU-5, WHU-6, WHU-7, WHU-8, WHU-9, and WHU-10 with heat input capacities of 4.5 MMBtu/hr, 3.0 MMBtu/hr, 2.75 MMBtu/hr, 3.5 MMBtu/hr, 4.5 MMBtu/hr, and 2.2 MMBtu/hr, respectively.

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

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

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).
- (c) It is an affected source under Title IV (Acid Deposition Control) of the Clean Air Act, as defined in 326 IAC 2-7-1(3);

## **SECTION B GENERAL CONDITIONS**

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

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

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

- (a) This permit, T147-6786-00020, 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 or of permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control).
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

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

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

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

### **B.4 Enforceability [326 IAC 2-7-7] [IC 13-17-12]**

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

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

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

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

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

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

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

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

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

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

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

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

and

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

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
  - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and
  - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

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

**B.10 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)][326 IAC 2-7-6(1) and (6)][326 IAC 1-6-3]**

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- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, 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 and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

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

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

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

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- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;

- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or  
Telephone Number: 317-233-0178 (ask for Compliance Section)  
Facsimile Number: 317-233-6865

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

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

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

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

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

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

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
  - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
  - (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.

- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

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

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

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

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
  - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
  - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
  - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
  - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.

- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

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

- (a) All terms and conditions of permits established prior to T147-27400-00020 and issued pursuant to permitting programs approved into the state implementation plan have been either:
  - (1) incorporated as originally stated,
  - (2) revised under 326 IAC 2-7-10.5, or
  - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit, except for permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control)

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 and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

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

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

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

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination

[326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

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- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
- (1) That this permit contains a material mistake.
  - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
  - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

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

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- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
- (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
  - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

**B.18 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12] [40 CFR 72]**

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- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.
- (b) Pursuant to 326 IAC 2-7-11(b) and 326 IAC 2-7-12(a), administrative Part 70 operating permit amendments and permit modifications for purposes of the acid rain portion of a Part 70 permit shall be governed by regulations promulgated under Title IV of the Clean Air Act. [40 CFR 72]
- (c) Any application requesting an amendment or modification of this permit shall be submitted to:
- Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

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

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

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

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- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b),(c), or (e) without a prior permit revision, if each of the following conditions is met:
- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

(3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

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

and

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

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

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

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

(b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.
- (f) This condition does not apply to emission trades of SO<sub>2</sub> or NO<sub>x</sub> under 326 IAC 21 or 326 IAC 10-4.

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

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

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

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

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

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

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

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

B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

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

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

## SECTION C

## SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

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

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

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

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

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

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

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

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

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

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

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

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

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

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

- (g) Indiana Licensed Asbestos Inspector  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

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

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

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- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

C.11 Maintenance of Continuous Opacity Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

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

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

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- (a) The Permittee shall install, calibrate, maintain, and operate all necessary continuous emission monitoring systems (CEMS) and related equipment.
- (b) In the event that a breakdown of a continuous emission monitoring system occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.
- (c) Whenever a continuous emission monitor other than an opacity monitor is malfunctioning or will be down for calibration, maintenance, or repairs for a period of four (4) hours or more, a calibrated backup CEMS shall be brought online within four (4) hours of shutdown of the primary CEMS, and shall be operated until such time as the primary CEMS is back in operation.
- (d) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to 326 IAC 3-5 and 40 CFR 60.

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

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

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

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

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

**C.15 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]**

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

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

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

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

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

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

C.16 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.17 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; and/or
  - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
  - (1) monitoring data;

- (2) monitor performance data, if applicable; and
- (3) corrective actions taken.

**C.18 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]**

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

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

The statement must be submitted to:

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

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

- (b) The emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

C.20 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]  
[326 IAC 2-2][326 IAC 2-3]

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- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance or ninety (90) days of initial start-up, whichever is later.
- (c) If there is a reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A), 40 CFR 51.165(a)(6)(vi)(B), 40 CFR 51.166(r)(6)(vi)(a), and/or 40 CFR 51.166(r)(6)(vi)(b)) that a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:
  - (1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, document and maintain the following records:
    - (A) A description of the project.
    - (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
    - (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
      - (i) Baseline actual emissions;
      - (ii) Projected actual emissions;
      - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1 (mm)(2)(A)(iii); and
      - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
- (d) If there is a reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A) and/or 40 CFR 51.166(r)(6)(vi)(a)) that a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:

- (1) 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
- (2) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.21 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

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

(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(e) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, 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 (d) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:

- (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (xx) and/or 326 IAC 2-3-1 (qq), for that regulated NSR pollutant, and

- (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).
- (g) The report for project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:
  - (1) The name, address, and telephone number of the major stationary source.
  - (2) The annual emissions calculated in accordance with (d)(1) and (2) in Section C - General Record Keeping Requirements.
  - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
  - (4) Any other information that the Permittee deems fit to include in this report.

Reports required in this part shall be submitted to:

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

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

### **Stratospheric Ozone Protection**

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

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

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

## **Ambient Monitoring Requirements [326 IAC 7-3]**

### **C.23 Ambient Monitoring [326 IAC 7-3]**

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- (a) The Permittee shall operate continuous ambient sulfur dioxide air quality monitors and a meteorological data acquisition system according to a monitoring plan submitted to the commissioner for approval. The monitoring plan shall include requirements listed in 326 IAC 7-3-2(a)(1), 326 IAC 7-3-2(a)(2) and 326 IAC 7-3-2(a)(3).
- (b) The Permittee and other operators subject to the requirements of this rule, located in the same county, may submit a joint monitoring plan to satisfy the requirements of this rule. [326 IAC 7-3-2(c)]
- (c) The Permittee may petition the commissioner for an administrative waiver of all or some of the requirements of 326 IAC 7-3 if such owner or operator can demonstrate that ambient monitoring is unnecessary to determine continued maintenance of the sulfur dioxide ambient air quality standards in the vicinity of the source. [326 IAC 7-3-2(d)]

## SECTION D.1

## FACILITY OPERATION CONDITIONS

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

- (a) One (1) pulverized coal opposed wall fired dry bottom boiler, identified as MB1 (Main Boiler 1), with construction commenced in 1977 and completed in 1984, with a design heat input capacity of 12,374 million Btu per hour, with an electrostatic precipitator (ESP) system for control of particulate matter. Low NO<sub>x</sub> burners and an overfire air (OFA) system have been installed for NO<sub>x</sub> control. No. 2 fuel oil is fired during startup, shutdown, and load stabilization periods. No. 2 fuel oil may also be burned to maintain boiler temperature to ensure boiler availability on short notice, and to maintain boiler temperature required during chemical cleaning. One (1) powdered activated carbon (PAC) injection system, identified as ACI, permitted in 2008 and 2010, with a combined maximum capacity of injecting 2,100 pounds of activated carbon per hour into the exhaust ductwork for Boilers 1 and 2 (MB1 and MB2). Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO<sub>x</sub>) and for sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitoring (COM) system are located on the common stack.
- (b) One (1) pulverized coal opposed wall fired dry bottom boiler, identified as MB2 (Main Boiler 2), with construction commenced in 1977 and completed in 1989, with a design heat input capacity of 12,374 million Btu per hour, with an electrostatic precipitator (ESP) system for control of particulate matter. Low NO<sub>x</sub> burners and an overfire air (OFA) system for NO<sub>x</sub> control are scheduled for installation in 2004. No. 2 fuel oil is fired during startup, shutdown, and load stabilization periods. No. 2 fuel oil may also be burned to maintain boiler temperature to ensure boiler availability on short notice, and to maintain boiler temperature required during chemical cleaning. One (1) powdered activated carbon (PAC) injection system, identified as ACI, permitted in 2008 and 2010, with a combined maximum capacity of injecting 2,100 pounds of activated carbon per hour into the exhaust ductwork for Boilers 1 and 2 (MB1 and MB2). Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO<sub>x</sub>) and for sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitoring (COM) system are located on the common stack.

### PAC Handling and Storage Operations

- (i) Two (2) pneumatic truck unloading stations and one (1) railcar unloading station for transferring activated carbon from transports to storage silos, permitted in 2008 and in 2010, with particulate emissions controlled by a bin vent filter.
- (j) Two (2) silos for storing activated carbon, each with a maximum storage capacity of 800 tons, permitted in 2008 and in 2010, with particulate emissions from each silo controlled by a bin vent filter.
- (k) Eight (8) capacity metering pressure tanks, each with a maximum capacity of injecting 500 pounds per hour of activated carbon into the exhaust ductwork, permitted in 2008 and in 2010, with particulate emissions controlled by a bin vent filter.

(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 Pollution Control Project (PCP) [326 IAC 2-2-1(x)(2)(H)]

Pursuant to Source Modification 147-17468-00020, issued November 13, 2003, and 326 IAC 2-2-1(x)(2)(H):

The replacement of the LNB and the installation of an OFA system for each of the boilers MB1

and MB2 to reduce NO<sub>x</sub> emissions are considered to be a pollution control project; therefore, the project's CO collateral emissions are excluded from the 326 IAC 2-2 PSD requirements.

D.1.2 New Source Performance Standard (NSPS) [326 IAC 12][40 CFR 60, Subpart D]

Pursuant to 326 IAC 12 and 40 CFR 60, Subpart D (Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971), emissions from Boilers MB1 and MB2 shall not exceed the following:

(a) For particulate matter:

- (1) 0.10 pound PM per million Btu (MMBtu) heat input derived from fossil fuel. [40 CFR 60.42(a)(1)]
- (2) Twenty percent (20%) opacity except for one six-minute period per hour of not more than twenty-seven percent (27%) opacity. [40 CFR 60.42(a)(2)]  
[40 CFR 60.45(g)(1)]

Pursuant to 40 CFR 60.11(c), this opacity standard is not applicable during periods of startup, shutdown, or malfunction.

(b) For sulfur dioxide:

- (1) 0.80 pound SO<sub>2</sub> per million Btu (MMBtu) heat input derived from liquid fossil fuel. [40 CFR 60.43(a)(1)]
- (2) 1.2 pound SO<sub>2</sub> per million Btu (MMBtu) heat input derived from solid fossil fuel. [40 CFR 60.43(a)(2)]
- (3) When combusting different fossil fuels simultaneously, the applicable SO<sub>2</sub> limit shall be determined using the formula in 40 CFR 60.43(b).
- (4) Compliance shall be based on the total heat input from all fossil fuels burned, including gaseous fuels. [40 CFR 60.43(c)]

(c) For nitrogen oxides:

- (1) 0.30 pound NO<sub>x</sub> per million Btu (MMBtu) heat input derived from liquid fossil fuel. [40 CFR 60.44(a)(2)]
- (2) 0.70 pound NO<sub>x</sub> per million Btu (MMBtu) heat input derived from solid fossil fuel (except lignite or a solid fossil fuel containing twenty-five percent (25%), by weight, or more of coal refuse). [40 CFR 60.44(a)(3)]
- (3) When combusting different fossil fuels simultaneously, the applicable NO<sub>x</sub> limit shall be determined using the formula in 40 CFR 60.44(b).

D.1.3 PSD Limits [40 CFR 52.21][326 IAC 6-2-1(g)][326 IAC 7-1.1-2]

Pursuant to Approval to Construct EPA-5-78-A-1, issued October 27, 1977, 40 CFR 52.21 (Federal Regulations for the Prevention of Significant Deterioration of Air Quality), 326 IAC 6-2-1(g), and 326 IAC 7-1.1-2(a):

- (a) MB1 and MB2 (a.k.a. Units 1 and 2) must meet emission limitations of 0.1 pound of particulate matter per million BTU heat input and 1.2 pounds of sulfur dioxide per million BTU heat input. These limitations are equivalent to the New Source Performance Standards (40 CFR Part 60) for fossil-fuel fired steam generating units and are defined as best available control technology. This condition is required by 40 CFR 52.21(d)(2)(ii).
- (b) The Permittee may not alter the height of the boilerhouse as presented in the construction application. The dispersion modeling in the application relies upon a stack height expressed as 22 times the height of the boilerhouse. Any change in the boilerhouse height would alter the dispersion of sulfur dioxide and particulates.
- (c) The Permittee may not alter the design stack parameters identified in the construction application including, but not limited to, exit gas temperature, exit gas velocity and stack diameter (inside top). The air quality analysis relies heavily on the combination of stack parameters, control devices, the emission limitations and any change in those factors could change the results of the air quality analysis. Therefore, design changes in Units 1 and 2 must receive the prior written authorization of IDEM, OAQ.

#### D.1.4 Opacity Limitations [326 IAC 5-1]

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- (a) Pursuant to 326 IAC 5-1-2 (Opacity Limitations), the following applies:
  - (1) Except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity from boilers MB1 and MB2 shall meet the following during time periods exempted from the opacity limit of 40 CFR 60 Subpart D, unless otherwise stated in this permit:
    - (A) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
    - (B) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.
  - (2) For sources or facilities that cannot meet the alternative opacity emission limitation requirements of 326 IAC 5-1-3(a), (b), or (c), the commissioner may grant a temporary alternative opacity limitation in accordance with 326 IAC 5-1-3(d). Pursuant to 326 IAC 5-1-3(d)(7) and 326 IAC 5-1-7, the temporary alternative opacity limit shall be submitted to the U.S. EPA as a state implementation plan (SIP) revision and shall not become effective until approved as a SIP revision by the U.S. EPA.
- (b) The Permittee is not in compliance with (a) of this condition because a site specific SIP revision has not yet been approved. Until such time that the site specific SIP revision is approved by U.S. EPA, the Permittee shall comply with the following:
  - (1) When building a new fire in a boiler, opacity may exceed the applicable limitation established in 326 IAC 5-1-2 for a period not to exceed a total of four (4) hours (forty (40) six (6)-minute averaging periods) during the startup period, or until the flue gas temperature reaches two hundred fifty (250) degrees Fahrenheit at the inlet of the electrostatic precipitator, whichever occurs first.
  - (2) When shutting down a boiler, opacity may exceed the applicable limitation established in 326 IAC 5-1-2 for a period not to exceed a total of one (1) hour (ten (10) six (6)-minute averaging periods) during the shutdown period.

(3) Operation of the electrostatic precipitator is not required during these times.

**D.1.5 Hourly SO<sub>2</sub> Emission Limitations [326 IAC 2-2]**

In accordance with the modeling analysis required for Approval to Construct EPA-5-78-A-1, issued October 27, 1977, and 40 CFR 52.21, the combined SO<sub>2</sub> emission rate for Boilers MB1 and MB2 shall not exceed 28,663 pounds of SO<sub>2</sub> per hour.

**D.1.6 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A]**

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facilities described in this section except when otherwise specified in 40 CFR Part 60, Subpart D.

**D.1.7 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]**

Pursuant to 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the PAC handling and storage operations shall not exceed the emission limits specified in the table below:

Unit Description	Max. Process Weight Rate (tons/hr)	Allowable Particulate Emission Rate (lbs/hr)
PAC Handling and Storage Operations	25	35.4

The allowable particulate emission rates were calculated using the equation below:

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

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

**Compliance Determination Requirements**

**D.1.8 Particulate Control [326 IAC 2-7-6(6)]**

In order to comply with Condition D.1.7, the bin vent filters for particulate control shall be in operation and control emissions at all times the respective unloading stations, silos and pressure tanks are in operation.

**D.1.9 Testing Requirements [326 IAC 2-7-6(1), (6)][326 IAC 2-1.1-11]**

In order to determine compliance with Conditions D.1.2 and D.1.3 the Permittee shall perform PM stack testing of the emissions from the common stack using methods as approved by the Commissioner. This testing shall be repeated by December 31 of every second calendar year following this valid compliance demonstration. Section C - Performance Testing contains the Permittee's obligations with regard to the performance testing required by this condition. For the purpose of this permit, "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

**D.1.10 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 the boiler vented to the ESP is in operation.

**D.1.11 Operation of Low NO<sub>x</sub> Burners and Overfire Air Systems [326 IAC 2-7-6(6)]**

Pursuant to SSM 147-17468-00020, issued November 13, 2003, except as otherwise provided by statute or rule, or in this permit, the low NO<sub>x</sub> burners and overfire air system for each boiler, MB1 and MB2, shall be operated at all times that the respective boiler is firing coal.

D.1.12 Continuous Emissions Monitoring [326 IAC 3-5][326 IAC 12][40 CFR 60, Subpart D]  
[326 IAC 7-2][40 CFR 52.21]

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- (a) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), 326 IAC 12, 40 CFR 60.45, Approval to Construct EPA-5-78-A-1, issued October 27, 1977, and 40 CFR 52.21, continuous emission monitoring systems for Units MB1 and MB2 shall be calibrated, maintained, and operated for measuring opacity, SO<sub>2</sub>, NO<sub>x</sub>, and either CO<sub>2</sub> or O<sub>2</sub>, which meet the performance specifications of 326 IAC 3-5-2 and 40 CFR 60.45.
- (b) Pursuant to 40 CFR 60.11(c), the opacity standard in Condition D.1.2(a)(2) and 40 CFR 60.42(a)(2) shall apply at all times except during periods of startup, shutdown, or malfunction. At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions [40 CFR 60.11(d)].
- (c) Pursuant to 40 CFR 60.13(e), except for system breakdowns, repairs, calibration checks, and zero and span adjustments required under paragraph (d) of 40 CFR 60.13, all continuous monitoring systems shall be in continuous operation and shall meet minimum frequency of operation requirements as follows:
  - (1) All continuous monitoring systems referenced by paragraph (c) of 40 CFR 60.13 for measuring opacity of emissions shall complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period.
  - (2) All continuous monitoring systems referenced by paragraph (c) of 40 CFR 60.13 for measuring emissions, except opacity, shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.
- (d) Pursuant to 40 CFR 60.45(g)(2)(i), Approval to Construct EPA-5-78-A-1, and 40 CFR 52.21, excess SO<sub>2</sub> emissions for affected facilities are defined as any three-hour period during which the average emissions (arithmetic average of three contiguous one-hour periods) of sulfur dioxide as measured by a continuous monitoring system exceed the applicable standard under 40 CFR 60.43.
- (e) Excess NO<sub>x</sub> emissions for affected facilities using a continuous monitoring system for measuring nitrogen oxides are defined as any three-hour period during which the average emissions (arithmetic average of three contiguous one-hour periods) exceed the applicable standards under 40 CFR 60.44. [40 CFR 60.45(g)(3)]
- (f) Pursuant to 326 IAC 3-7-5(a), the Permittee shall develop a standard operating procedure (SOP) to be followed for sampling, handling, analysis, quality control, quality assurance, and data reporting of the information collected pursuant to 326 IAC 3-7-2 through 326 IAC 3-7-4. In addition, any revision to the SOP shall be submitted to IDEM, OAQ.
- (g) All continuous emission monitoring systems are subject to monitor system certification requirements pursuant to 326 IAC 3-5-3.
- (h) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to 326 IAC 3-5, 326 IAC 10-4, 40 CFR 60, or 40 CFR 75.

**D.1.13 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 3-5][326 IAC 7-2][326 IAC 7-1.1-2]**

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Pursuant to 326 IAC 7-2-1(c), the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed the SO<sub>2</sub> limits in Conditions D.1.2 and D.1.3. Compliance with these limits shall be determined using SO<sub>2</sub> CEMS data, and demonstrated using a thirty (30) day rolling weighted average.

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

**D.1.14 Transformer-Rectifier (T-R) Sets [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 the unit is in operation, by measuring and recording the number of T-R sets in service and the primary and secondary voltages and the currents of the T-R sets.
- (b) Reasonable response steps shall be taken in accordance with Section C - Response to Excursions or Exceedances whenever the percentage of T-R sets in service falls below ninety percent (90%). T-R set failure resulting in less than ninety percent (90%) availability is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

**D.1.15 SO<sub>2</sub> Monitoring System Downtime [326 IAC 2-7-6][326 IAC 2-7-5(3)]**

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Whenever the SO<sub>2</sub> continuous emission monitoring system (CEMS) is malfunctioning or down for repairs or adjustments, the following shall be used to provide information related to SO<sub>2</sub> emissions:

- (a) If the CEMS is down for less than twenty-four (24) hours, the Permittee shall substitute an average of the quality-assured data from the hour immediately before and the hour immediately after the missing data period for each hour of missing data.
- (b) If the CEMS is down for twenty-four (24) hours or more, fuel sampling shall be conducted as follows:
  - (1) Solid fuel sampling shall be conducted as specified in 326 IAC 3-7-2(b). Fuel sample preparation and analysis shall be conducted as specified in 326 IAC 3-7-2(c), 326 IAC 3-7-2(d), and 326 IAC 3-7-2(e). Pursuant to 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.
  - (2) If fuel oil is fired in the unit during the CEMS downtime, pursuant to 326 IAC 7-2-1(e) and 326 IAC 3-7-4, oil sampling and analysis data shall be collected as follows:
    - (A) The Permittee may rely upon vendor analysis of fuel delivered, if accompanied by a vendor certification [326 IAC 3-7-4(b)]; or,
    - (B) The Permittee shall perform sampling and analysis of fuel oil samples in accordance with 326 IAC 3-7-4(a).

#### D.1.16 Visible Emissions Notations

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- (a) Daily visible emission notations of the exhaust from the bin vent filters on the storage silos shall be performed during normal daylight operations when loading or unloading material. 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, at least eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C – Response to Excursions and Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions and Exceedances, shall be considered a deviation from this permit.

#### D.1.17 Broken or Failed Bin Vent Filter Detection

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In the event that filter failure has been observed, for single compartment filters, failed units and the associated process will be shut down as soon as possible until the failed units have been repaired or replaced.

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

#### D.1.18 Record Keeping Requirements

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- (a) To document compliance with Section C - Opacity, Section C - Maintenance of Continuous Opacity Monitoring Equipment, and the particulate matter and opacity requirements in Conditions D.1.2(a), D.1.3, D.1.4, D.1.12, and D.1.14, the Permittee shall maintain records in accordance with (1) through (4) below. Records shall be complete and sufficient to establish compliance with the limits in Section C - Opacity and Conditions D.1.2(a), D.1.3, and D.1.4.
  - (1) Data and results from the most recent stack test.
  - (2) All continuous opacity monitoring data, pursuant to 326 IAC 3-5-6, 40 CFR 60.7, and 40 CFR 60.45.
  - (3) The results of all Method 9 visible emission readings taken during any periods of COM downtime.
  - (4) All ESP parametric monitoring readings.
- (b) To document compliance with the SO<sub>2</sub> requirements in Conditions D.1.2(b), D.1.3(a), D.1.5, D.1.12, D.1.13, and D.1.15, the Permittee shall maintain records in accordance with (1) through (4) below. Records shall be complete and sufficient to establish compliance with the applicable SO<sub>2</sub> limit(s) as required in Conditions D.1.2(b), D.1.3(a), D.1.12, and D.1.13. The Permittee shall maintain records in accordance with (3) and (4) below during SO<sub>2</sub> CEMS malfunction or downtime.
  - (1) All SO<sub>2</sub> continuous emissions monitoring data, pursuant to 326 IAC 3-5-6, 326 IAC 7-2-1(g), 40 CFR 60.7, and 40 CFR 60.45.

- (2) Actual fuel usage since last compliance determination period.
  - (3) All fuel sampling and analysis data collected for SO<sub>2</sub> CEMS downtime, in accordance with Condition D.1.15.
  - (4) Actual fuel usage during each SO<sub>2</sub> CEMS downtime.
- (c) To document compliance with the NO<sub>x</sub> requirements in Conditions D.1.2 and D.1.12, the Permittee shall maintain records of all NO<sub>x</sub> and CO<sub>2</sub> or O<sub>2</sub> continuous emissions monitoring data, pursuant to 326 IAC 3-5-6, 326 IAC 2-2, 40 CFR 60.7, and 40 CFR 60.45. Records shall be complete and sufficient to establish compliance with the NO<sub>x</sub> limits as required in Condition D.1.2.
  - (d) Pursuant to 326 IAC 2-2 and 326 IAC 2-3, the Permittee shall maintain records as specified by Conditions C.20(c) and (d) (General Record Keeping Requirements).
  - (e) To document compliance with Condition D.1.16, the Permittee shall maintain records of the visible emission notations required by that condition. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
  - (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.1.19 Reporting Requirements

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- (a) A quarterly report of opacity exceedances and a quarterly summary of the information to document compliance with the PM and SO<sub>2</sub> requirements of Conditions D.1.2, D.1.3, D.1.4, and D.1.12 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) Pursuant to 326 IAC 12, 40 CFR 60.7(c), Approval to Construct EPA-5-78-A-1, and 40 CFR 52.21, to document compliance with Conditions D.1.2 and D.1.3 and pursuant to 40 CFR 60.45(g), excess emissions and monitoring system performance (MSP) reports shall be submitted on a quarterly basis. All reports shall be postmarked by the 30th day following the end of each quarter. Each excess emission and MSP report shall include the information required in 40 CFR 60.7(c). These reports shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
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 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).

## SECTION D.2

## FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)] (The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

- (c) Two (2) No. 2 fuel oil-fired boilers, identified as Auxiliary Boiler 1 and Auxiliary Boiler 2, with construction commenced in 1977 and completed in 1983, each with a design heat input capacity of 603 million Btu per hour, both exhausting through Stack AB12.

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

#### D.2.1 Alternative Opacity Monitoring [326 IAC 12][40 CFR 60.13(i)(2)]

Pursuant to the approval letter issued March 18, 2003, by U.S. EPA, and 40 CFR 60.13(i)(2), Auxiliary Boilers 1 and 2 shall comply with the following Alternative Opacity Monitoring requirements:

- (a) Neither boiler shall be operated more than 876 hours in a calendar year. If one of the boilers is operated more than 876 hours in a calendar year, AEP shall immediately submit a schedule for installing and certifying a continuous opacity monitor (COM) to IDEM and U.S. EPA. This schedule shall require installation of the COM within six months or less of the 876 hour limit exceedance. IDEM and U.S. EPA shall also be immediately notified that the 876 hour limit has been exceeded.
- (b) At least once every four (4) hours of operation, during daylight hours, an observer certified in accordance with U.S. EPA Method 9 shall perform three (3) six-minute observations of each boiler stack.
- (c) If the average of any 6-minute set of readings collected in accordance with Condition D.2.1(b) exceeds 10 percent (10%), the observer must collect two additional 6-minute sets of visible emission readings.
- (d) AEP shall maintain the boilers in accordance with good air pollution control practices.

#### D.2.2 New Source Performance Standard (NSPS) [326 IAC 12][40 CFR 60, Subpart D] [326 IAC 6-2-1(f)]

Pursuant to 326 IAC 12 and 40 CFR 60, Subpart D (Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971), emissions from Auxiliary Boilers 1 and 2 shall not exceed the following:

- (a) For particulate matter:
- (1) 0.10 pound PM per million Btu (MMBtu) heat input derived from fossil fuel. [40 CFR 60.42(a)(1)][326 IAC 6-2-1(f)]
- (2) Twenty percent (20%) opacity except for one six-minute period per hour of not more than twenty-seven percent (27%) opacity. [40 CFR 60.42(a)(2)] [40 CFR 60.45(g)(1)]

Pursuant to 40 CFR 60.11(c), this opacity standard is not applicable during periods of startup, shutdown, or malfunction.

- (b) For sulfur dioxide:  
  
0.80 pound SO<sub>2</sub> per million Btu (MMBtu) heat input derived from liquid fossil fuel.  
[40 CFR 60.43(a)(1)]
- (c) For nitrogen oxides:  
  
0.30 pound NO<sub>x</sub> per million Btu (MMBtu) heat input derived from liquid fossil fuel.  
[40 CFR 60.44(a)(2)]

#### D.2.3 RESERVED

#### D.2.4 Temporary Alternative Opacity Limitations [326 IAC 5-1-3]

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Pursuant to 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), when building a new fire in a boiler, or shutting down a boiler, opacity may exceed the forty percent (40%) opacity limitation of 326 IAC 5-1-2. However, opacity levels shall not exceed sixty percent (60%) for any six (6)-minute averaging period. Opacity in excess of the applicable limit established in 326 IAC 5-1-2 shall not continue for more than two (2) six (6)-minute averaging periods in any twenty-four (24) hour period. [326 IAC 5-1-3(a)]

#### D.2.5 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1.1-2]

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Pursuant to 326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations), the SO<sub>2</sub> emissions from Auxiliary Boilers 1 and 2 shall not exceed 0.5 pounds per million Btu (lbs/MMBtu).

#### D.2.6 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A]

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The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facilities described in this section except when otherwise specified in 40 CFR Part 60, Subpart D.

#### D.2.7 RESERVED

### Compliance Determination Requirements

#### D.2.8 Continuous Emissions Monitoring [326 IAC 3-5][326 IAC 12][40 CFR 60, Subpart D]

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Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions) and 40 CFR 60.45, no continuous emission monitoring systems are required for Auxiliary Boilers 1 and 2 at this time.

- (a) Pursuant to paragraph (b) of 40 CFR 60.45:
  - (1) For a fossil fuel fired steam generator that does not use a flue gas desulfurization device, a continuous monitoring system for measuring sulfur dioxide emissions is not required if the owner or operator monitors sulfur dioxide emissions by fuel sampling and analysis.
  - (2) Pursuant to 40 CFR 60.45(b)(3) and the results of the nitrogen oxides (NO<sub>x</sub>) stack tests performed January 15 and January 16, 2003, Auxiliary Boilers 1 and 2 are exempted from the NO<sub>x</sub> continuous monitoring requirement of 60.45(a).  
  
This exemption is contingent upon continued demonstration that the NO<sub>x</sub> emissions are less than 70% of the limit (i.e. < 0.49 pounds per million Btu's).
  - (3) If an owner or operator does not install any continuous monitoring systems for sulfur oxides and nitrogen oxides, as provided under paragraph (b) of 40 CFR 60.45, a continuous monitoring system for measuring either oxygen or carbon dioxide is not required.

- (b) Pursuant to 40 CFR 60.13(i)(2), Auxiliary Boilers 1 and 2 shall comply with the Alternative Opacity Monitoring requirements of the approval letter issued March 18, 2003, by U.S. EPA, in lieu of the continuous opacity monitoring requirements of 40 CFR 60.45.

D.2.9 Testing Requirements [326 IAC 2-7-6(1), (6)][326 IAC 2-1.1-11][326 IAC 3-5-1(c)(2)(A)(ii)]

Performance tests for Auxiliary Boiler 1 and 2 were performed in 2003 pursuant to 40 CFR 60.11. PM and NO<sub>x</sub> stack testing shall be repeated using methods as approved by the Commissioner, as follows:

- (a) By December 31 of the second calendar year following the most recent stack test; or
- (b) If a unit is not operated at least 1,000 hours in the 2 years since the previous stack test, then testing shall be repeated at least once every 1,000 hours of operation for that unit, or five (5) calendar years from the date of the last valid compliance demonstration, whichever occurs first.

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.2.10 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 3-7][326 IAC 7-2][326 IAC 12][40 CFR 60.45(b)(2)]

- (a) Pursuant to 40 CFR 60.45(b)(2), the Permittee shall monitor sulfur dioxide emissions by fuel sampling and analysis.
- (b) Pursuant to 326 IAC 7-2-1(c)(3), the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed the equivalent of 0.5 pounds per MMBtu, using a calendar month average.
- (c) Pursuant to 326 IAC 7-2-1(e) and 326 IAC 3-7-4, fuel sampling and analysis data shall be collected as follows:
  - (1) The Permittee may rely upon vendor analysis of fuel delivered, if accompanied by a vendor certification [326 IAC 3-7-4(b)]; or
  - (2) The Permittee shall perform sampling and analysis of fuel oil samples in accordance with 326 IAC 3-7-4(a).
    - (A) Oil samples shall be collected from the tanker truck load prior to transferring fuel to the storage tank; or
    - (B) Oil samples shall be collected from the storage tank immediately after each addition of fuel to the tank.
- (d) Upon written notification to IDEM by a facility owner or operator, continuous emission monitoring data collected and reported pursuant to 326 IAC 3-5 may be used as the means for determining compliance with the emission limitations in 326 IAC 7. Upon such notification, the other requirements of 326 IAC 7-2 shall not apply. [326 IAC 7-2-1(g)]

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

### **D.2.11 Method 9 Observations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]**

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If during the Method 9 opacity readings required by Condition D.2.1(b), opacity emissions are observed from Stack AB12 that are greater than normal for the operating condition of the auxiliary boiler(s), or in excess of the applicable opacity limit, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Observation of greater than normal emissions that do not violate an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

### **D.2.12 Record Keeping Requirements**

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- (a) Pursuant to the approval letter issued March 18, 2003, by U.S. EPA, and 40 CFR 60.13(i)(2), and to document compliance with Section C - Opacity, Condition D.2.1(b) and (c), Condition D.2.3, and Condition D.2.11, the Permittee shall maintain the following records:
- (1) Records of the date and time of visible emission observations, along with the results of each observation, must be maintained. Such records must be maintained on-site for a period of five years from the date of the observation.
  - (2) Records of hours of operation for each boiler must be maintained onsite for a period of five years.
- (b) To document compliance with PM and NO<sub>x</sub> limits in Condition D.2.2(a) and (c) and Condition D.2.9, the Permittee shall maintain records of the data and results from the most recent stack test. Records shall be complete and sufficient to establish compliance with the PM and NO<sub>x</sub> limits established in Condition D.2.2.
- (1) Data and results from the most recent stack test;
  - (2) All sampling and analysis data used to show compliance with 326 IAC 7-1.1 and 40 CFR 60.43(a)(1).
- (c) To document compliance with the SO<sub>2</sub> requirements in Conditions D.2.2(b), D.2.4, 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 SO<sub>2</sub> limits in Conditions D.2.2 and D.2.4.
- (1) All fuel sampling and analysis data used to show compliance with 326 IAC 7-1.1 and 40 CFR 60.43(a)(1).
  - (2) Actual fuel usage since last compliance determination period.

### D.2.13 Reporting Requirements

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(a) To document compliance with the applicable opacity limitations and monitoring requirements:

- (1) Pursuant to the approval letter issued March 18, 2003, by U.S. EPA, and 40 CFR 60.13(i)(2), within thirty days of the end of each calendar quarter, excess opacity emission reports for Auxiliary Boilers 1 and 2 must be submitted to IDEM and U.S. EPA. The excess emission reports shall identify the number of hours of operation in that quarter, the number of hours of operation in previous quarters within the same calendar year, the total number of observations performed under condition D.2.1(b) and any excess opacity readings observed. The excess emission report shall denote that the boilers must comply with a 20 percent opacity limit over a six-minute average.
- (2) Within thirty days of the end of each calendar quarter, a quarterly summary of the information to document compliance with Condition D.2.4 and 326 IAC 5-1-3 shall be submitted to IDEM at the address listed in Section C - General Reporting Requirements, of this permit, within thirty (30) days after the end of the quarter being reported.

The Permittee may elect to combine the excess opacity emission report for 326 IAC 5-1-3 with the quarterly reports required under part (a)(1) of this condition. If the Permittee elects to submit combined opacity reports, the reports submitted pursuant to (a) must also identify any excess opacity readings observed during startup and shutdown, and each report must state precisely which state and federal requirements are satisfied by the report.

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

(3) The reports required by Condition D.2.13(a)(1) shall be submitted to:

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

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

(b) To document compliance with the NSPS SO<sub>2</sub> requirements:

- (1) To document compliance with Condition D.2.2(b), pursuant to 40 CFR 60.45(b)(2), excess SO<sub>2</sub> emissions reports shall be submitted to the administrator semi-annually for each six month period in the calendar year. All semiannual reports shall be postmarked by the 30th day following the end of each six-month period. Each excess emission and MSP report shall include the information required in 40 CFR 60.7(c).

- (2) The reports required by Condition D.2.16(b)(1) shall be submitted to:  
Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

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

- (c) Upon request of the IDEM, OAQ, reports of the calendar month average sulfur content, heat content, fuel consumption, and sulfur dioxide emission rate in pounds per million Btus shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit. [326 IAC 7-2-1(c)(3)]

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.3 FACILITY CONDITIONS

Facility Description [326 IAC 2-7-5(15)] (The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

- (d) A coal storage and handling system for MB1 and MB2, with installation started in 1981 and completed in 1984, consisting of the following equipment:
- (1) Two (2) barge unloading stations, identified as Stations 1 and 2, each with a baghouse, or a dust extraction system using water injection, and foam or water spray for particulate control, each with a bucket elevator with foam or water spray and partial enclosure for particulate control, and Conveyors 1 and 2 with water spray for particulate control.
  - (2) Enclosed conveyor systems, including fully and partially enclosed conveyors, with foam, water, or other equivalent dust suppression measures for particulate control, with the transfer points enclosed by buildings with baghouses, or a dust extraction system using water injection, for particulate control at Stations 5, 6 and 7. A stacker reclaim system is used to drop coal to the storage pile(s). The coal handling system has a design throughput capacity of 4000 tons per hour up to the stacker-reclaimers, and 1600 tons per hour from Station 7E and 7W to the coal bunkers in the units.
  - (3) Coal storage pile(s), with fugitive dust emissions controlled by watering.
  - (4) Coal crushing Station 8, with a maximum throughput of 2618 tons per hour for the east system and 2542 tons per hour for the west system, with a baghouse for particulate control, or a dust extraction system using water injection.
  - (5) Blending and transfer Station 9, with foam, water, or other equivalent dust suppression measures for particulate control.
  - (6) Blending and transfer Station 10.
  - (7) Two (2) storage silos for Station 9, with foam, water, or other equivalent dust suppression measures for particulate control.
  - (8) Coal sampling and transfer Stations A and D, each with a baghouse for particulate control, or a dust extraction system using water injection.
  - (9) Bunkering conveyors AB, BC, CB, DC, and FD, each fully enclosed, each with a baghouse for particulate control, or a dust extraction system using water injection.
  - (10) Fourteen (14) storage silos for Unit 1, with particulate control as follows:
    - (A) four (4) bag type filters, two for each set of seven bunkers on each side of Main Boiler 1, or
    - (B) one or more dust extraction systems using water injection.
  - (11) Fourteen (14) storage silos for Unit 2, with particulate control as follows:
    - (A) four (4) bag type filters, two for each set of seven bunkers on each side of Main Boiler 2, or
    - (B) one or more dust extraction systems using water injection.

**Insignificant Activities [326 IAC 2-7-1(21)]:**

Coal bunker and coal scale exhausts and associated dust collector vents.

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

**D.3.1 Particulate [326 IAC 6-3-2]**

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), for the coal storage and handling system other than the coal storage piles, at a throughput rate greater than 200 tons per hour the concentration of particulate in the discharge gases to the atmosphere shall be less than 0.10 pounds per one thousand (1,000) pounds of gases.

**Compliance Determination Requirements**

**D.3.2 Particulate Control [326 IAC 2-7-6(6)]**

Except as otherwise provided by statute or rule or in this permit, in order to comply with Conditions D.3.1 and D.3.2, the baghouses, dust extraction systems, and dust collectors for particulate control shall be in operation and control emissions at all times the associated processes are in operation, and the foam, water, or other equivalent dust suppression shall be in operation and control emissions at all times the associated processes are in operation.

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

**D.3.3 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]**

- (a) Visible emission notations of the partially enclosed coal unloading stations shall be performed once per week during normal daylight operations when unloading coal. A trained employee shall record whether emissions are normal or abnormal.
- (b) Visible emission notations of the exhaust from the particulate control devices on the coal handling operations shall be performed once per week during normal daylight operations when the associated processes are in operation. A trained employee shall record whether emissions are normal or abnormal.
- (c) If abnormal emissions are observed from the coal handling operations, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Observation of abnormal emissions that do not violate 326 IAC 6-4 (Fugitive Dust Emissions) or an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (d) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation.
- (e) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (f) 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.3.4 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]**

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- (a) The Permittee shall record the pressure drop across each baghouse used in conjunction with the unloading stations, transfer stations, coal crusher, and bunkering conveyors at least once per week when the corresponding facility is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 3.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (b) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, and shall be calibrated in accordance with the manufacturer's specifications. The specifications shall be available on site with the Preventive Maintenance Plan.

**D.3.5 Broken or Failed Bag or Dust Extraction System Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]**

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- (a) For a dust extraction system with water injection or a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a dust extraction system with water injection or a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emission unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Failure of a dust extraction system can be indicated by abnormal visible emissions, by an opacity violation, or by other means such as air intake rate, water injection rate, or impeller speed.

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

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

**D.3.6 Record Keeping Requirements**

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- (a) To document compliance with Condition D.3.3 the Permittee shall maintain records of the weekly visible emission notations of the coal unloading station openings and the exhausts from the particulate control devices on the coal handling operations.
- (b) To document compliance with Condition D.3.4, the Permittee shall maintain records of the pressure drop across each baghouse.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

## **New Source Performance Standards (NSPS)**

### **D.3.7 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A]**

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The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the coal storage and handling system for MB1 and MB2, except when otherwise specified in 40 CFR Part 60, Subpart Y.

### **D.3.8 New Source Performance Standard (NSPS): Coal Preparation Plants [326 IAC 12] [40 CFR 60, Subpart Y]**

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The following provisions of 40 CFR Part 60, Subpart Y - Standards of Performance for Coal Preparation Plants, which are incorporated by reference in 326 IAC 12, apply to the coal storage and handling system for MB1 and MB2 (Applicable portions are included in Attachment A):

- (a) 40 CFR 60.250;
- (b) 40 CFR 60.251;
- (c) 40 CFR 60.252(a)(1), and (2), (b)(1) and (2), and (c);
- (d) 40 CFR 60.253(a)(1), and (2)(i)(ii) and (b), and
- (e) 40 CFR 60.254.

## SECTION D.4

## FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)] (The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

- (e) Dry fly ash handling:
  - (1) Fly ash handling for MB1, installed in approximately 1982, including the following:
    - (A) Vacuum system to convey fly ash to four (4) storage silos with particulate emissions controlled by a bin vent filter on each silo, with a maximum throughput rate of 58 tons per hour.
    - (B) Each of the four fly ash silos is equipped with two telescoping chutes for loading dry ash into tanker trucks. Each chute has a vacuum system to control dust and transport it back into the storage silo. Process rate for loading the tanker trucks is estimated at 300 tons per hour.
    - (C) Each of the four fly ash silos is equipped with two wet ash conditioners, for loading ash into open trucks for disposal. Dust is controlled by mixing water with the ash prior to depositing the ash in the truck. Process rate is estimated at 150 tons per hour.
    - (D) Water spray curtains on each silo can be used to prevent dust generated in the loading operation from leaving the loading gallery in the silo base, if the outdoor temperature is above freezing.
  - (2) Fly ash handling for MB2, with installation completed in 1986, including the following:
    - (A) Vacuum system to convey fly ash to four (4) storage silos with particulate emissions controlled by two (2) bin vent filters on each silo, with a maximum throughput rate of 58 tons per hour.
    - (B) Each of the four fly ash silos is equipped with two telescoping chutes for loading dry ash into tanker trucks. Each chute has a vacuum system to control dust and transport it back into the storage silo. Process rate for loading the tanker trucks is estimated at 300 tons per hour.
    - (C) Each of the four fly ash silos is equipped with two wet ash conditioners, for loading ash into open trucks for disposal. Dust is controlled by mixing water with the ash prior to depositing the ash in the truck. Process rate is estimated at 150 tons per hour.
    - (D) Water spray curtains on each silo can be used to prevent dust generated in the loading operation from leaving the loading gallery in the silo base, if the outdoor temperature is above freezing.
  - (3) One (1) fly ash barge loading facility, with pneumatic unloading system from covered truck to covered barge with a maximum throughput rate of 52.5 tons ash per hour, with a baghouse on a river cell for particulate control.
  - (4) Rail loading equipment associated with the former fly ash temporary storage facility, with a maximum throughput rate of 52.5 tons ash per hour. The loader has a baghouse for dust control.

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

### D.4.1 Particulate [326 IAC 6-3-2]

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- (a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rates shall not exceed the following:
- (1) 46 pounds per hour from the fly ash vacuum conveying system to storage silos when operating at a process weight rate of 58 tons per hour.
  - (2) 55 pounds per hour from the ash loading to open trucks from the storage silos when operating at a process weight rate of 150 tons per hour.
  - (3) 45 pounds per hour from fly ash barge loading when operating at a maximum process weight rate of 52.5 tons per hour.
  - (4) 45 pounds per hour from fly ash rail loading when operating at a maximum process weight rate of 50 tons per hour.

These pounds per hour limitations were calculated using the following equation:

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

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

- (b) Pursuant to 326 IAC 6-3-2(e)(3) (Particulate Emission Limitations for Manufacturing Processes), for dry fly ash loading to tanker trucks from the storage silos at a maximum throughput rate greater than 200 tons per hour, the concentration of particulate in the discharge gases to the atmosphere shall be less than 0.10 pounds per one thousand (1,000) pounds of gases.

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

### D.4.2 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

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- (a) Visible emission notations of the ash silo unloading station openings shall be performed at least once per day during normal daylight operations when ash is being unloaded. A trained employee shall record whether emissions are normal or abnormal.
- (b) Visible emission notations of each ash silo bin vent filter exhaust, barge and rail loading baghouse exhaust, and the nozzle of each telescoping chute shall be performed at least once per day during normal daylight operations when transferring ash to the respective silo or through the respective ash transfer facilities. A trained employee shall record whether emissions are normal or abnormal.
- (c) If abnormal emissions of ash are observed from the ash silo unloading station openings, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Observation of visible emissions that do not violate 326 IAC 6-4 (Fugitive Dust Emissions) or an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

- (d) If abnormal emissions are observed at a bin vent filter or baghouse exhaust or from the nozzle of the telescoping chute, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Observation of abnormal emissions that do not violate 326 IAC 6-4 (Fugitive Dust Emissions) or an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (e) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation.
- (f) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (g) 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.4.3 Baghouse and Bin Vent Filter Parametric Monitoring [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) The Permittee shall record the pressure drop across each bin vent filter and baghouse used in conjunction with the ash handling at least once per day when the ash handling is in operation. When for any one reading, the pressure drop across the bin vent filter or baghouse is outside the normal range of 3.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (b) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, and shall be calibrated in accordance with the manufacturer's specifications. The specifications shall be available on site with the Preventive Maintenance Plan.

#### D.4.4 Broken or Failed Bag Detection [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emission unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

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

### **D.4.5 Record Keeping Requirements**

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- (a) To document compliance with Condition D.4.2, the Permittee shall maintain records of the visible emission notations of the ash silo unloading station openings and the baghouse and bin vent exhausts.
- (b) To document compliance with Condition D.4.3, the Permittee shall maintain records of the pressure drop across each baghouse and bin vent filter.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

## SECTION D.5

## FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)] (The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

- (f) Wet process bottom ash handling, with hydroveyors conveying ash to storage ponds, with water level sufficient to prevent ash re-entrainment.

Insignificant Activities [326 IAC 2-7-1(21)]:

Ponded bottom ash handling and management, including dredging bottom ash ponds and loading material into trucks.

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

#### D.5.1 Fugitive Dust Emission Limitations [326 IAC 6-4-2]

Pursuant to 326 IAC 6-4-2:

- (a) Any ash storage pond generating fugitive dust shall be in violation of this rule (326 IAC 6-4) if any of the following criteria are violated:
- (1) A source or combination of sources which cause to exist fugitive dust concentrations greater than sixty-seven percent (67%) in excess of ambient upwind concentrations as determined by the following formula:

$$P = \frac{100(R - U)}{U}$$

Where:

- P = Percentage increase  
R = Number of particles of fugitive dust measured at downward receptor site  
U = Number of particles of fugitive dust measured at upwind or background site

- (2) The fugitive dust is comprised of fifty percent (50%) or more respirable dust, then the percent increase of dust concentration in subdivision (1) of this section shall be modified as follows:

$$P_R = (1.5 \pm N) P$$

Where:

- N = Fraction of fugitive dust that is respirable dust;  
P<sub>R</sub> = allowable percentage increase in dust concentration above background; and  
P = no value greater than sixty-seven percent (67%).

- (3) The ground level ambient air concentrations exceed fifty (50) micrograms per cubic meter above background concentrations for a sixty (60) minute period.
- (4) If fugitive dust is visible crossing the boundary or property line of a source. This subdivision may be refuted by factual data expressed in subdivisions (1), (2) or (3) of this section. 326 IAC 6-4-2(4) is not federally enforceable.

- (b) Pursuant to 326 IAC 6-4-6(6) (Exceptions), fugitive dust from a source caused by adverse meteorological conditions will be considered an exception to this rule (326 IAC 6-4) and therefore not in violation.

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

#### **D.5.2 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]**

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- (a) Visible emission notations of the ash storage pond area(s) and any bottom ash storage piles shall be performed at least once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) If visible emissions are observed crossing the property line or boundaries of the property, right-of-way, or easement on which the source is located, 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.
- (c) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation.
- (d) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (e) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

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

#### **D.5.3 Record Keeping Requirements**

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- (a) To document compliance with Conditions D.5.1 and D.5.2, the Permittee shall maintain records of visible emission notations of the ash storage pond area(s) and any bottom ash storage piles.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

## SECTION D.6

## FACILITY CONDITIONS

Facility Description [326 IAC 2-7-5(15)] (The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

- (g) Emergency generators as follows: Three (3) No. 2 fuel oil-fired emergency diesel generators designated as DG1, DG2, and DG3, each with 25.16 MMBtu/hr heat input capacity.  
[326 IAC 7][326 IAC 2]
- (h) Six (6) No. 2 fuel oil-fired space heaters designated as WHU-5, WHU-6, WHU-7, WHU-8, WHU-9, and WHU-10 with heat input capacities of 4.5 MMBtu/hr, 3.0 MMBtu/hr, 2.75 MMBtu/hr, 3.5 MMBtu/hr, 4.5 MMBtu/hr, and 2.2 MMBtu/hr, respectively.

### Insignificant Activities [326 IAC 2-7-1(21)]:

Space heaters using the following fuels: Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) Btu per hour and firing fuel containing less than three-tenths (0.3) percent sulfur by weight, including space heaters WHU-1 and WHU-2, each with 1.1 MMBtu/hr heat input capacity.

Emergency generators as follows: Diesel generators not exceeding 1600 horsepower.

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

### D.6.1 PSD Minor Limit [326 IAC 2-2]

In order to make the requirements of 326 IAC 2-2-1(x) and 326 IAC 2-2-1(jj) (PSD Requirements) not applicable to the diesel generators DG1, DG2, and DG3, during periods when both of the Unit 1 and Unit 2 main boilers are in service the total operating hours for all three diesel generators (DG1, DG2, and DG3) taken together shall not exceed 780 hours per twelve (12) consecutive month period with compliance determined at the end of each month.

### D.6.2 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7]

Pursuant to 326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations), the SO<sub>2</sub> emissions from the distillate oil-fired emergency generators and space heaters shall not exceed 0.5 pounds per million Btu (lbs/MMBtu).

### D.6.3 PSD Minor Limit for SO<sub>2</sub> [326 IAC 2-2]

In order to make the requirements of 326 IAC 2-2-1(x) and 326 IAC 2-2-1(jj) (PSD Requirements) not applicable to the fuel oil-fired space heaters WHU-1, WHU-2, WHU-5, WHU-6, WHU-7, WHU-8, WHU-9, and WHU-10, the emissions from the heaters shall be limited to less than forty (40) tons of sulfur dioxide (SO<sub>2</sub>) per twelve (12) consecutive month period with compliance determined at the end of each month. Compliance with this limit shall be determined at the end of each month, using the following equation:

$$\text{SO}_2 \text{ Emissions (per month)} = \frac{142 \times \text{S\%} \times 22.65 \text{ MMBtu/hr} \times \text{Hr (hrs/month)}}{\text{H (MMBtu/kgal)} \times 2000 \text{ (lb/ton)}}$$

Where:

- SO<sub>2</sub> Emission Limit (S) = (142 X S%) lbs per kilogallons
- Monthly Average Sulfur Content = S (%)
- Heat Input Capacity = 22.65 MMBtu/hr
- Operating Hours = Hr (hrs/month)
- Monthly Average Fuel Heating Value = H (MMBtu/kgal)

## Compliance Determination Requirements

### D.6.4 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 3][326 IAC 7-2][326 IAC 7-1.1-2 ] [326 IAC 2-2]

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- (a) Pursuant to 326 IAC 7-2-1(c), the Permittee shall demonstrate that the sulfur dioxide emissions from the emergency generators and the space heaters do not exceed the equivalent of five-tenths (0.5) pound per million Btu heat input, using a calendar month average.
- (b) The Permittee shall demonstrate that the fuel oil sulfur content does not exceed the percentage required for compliance with D.6.3.
- (c) Pursuant to 326 IAC 7-2-1(e) and 326 IAC 3-7-4, fuel sampling and analysis data shall be collected as follows:
  - (1) The Permittee may rely upon vendor analysis of fuel delivered, if accompanied by a vendor certification [326 IAC 3-7-4(b)]; or,
  - (2) The Permittee shall perform sampling and analysis of fuel oil samples in accordance with 326 IAC 3-7-4(a).
    - (A) Oil samples shall be collected from the tanker truck load prior to transferring fuel to the storage tank; or
    - (B) Oil samples shall be collected from the storage tank immediately after each addition of fuel to the tank.

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

#### D.6.5 Record Keeping Requirements

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- (a) To document compliance with the requirements in Condition D.6.1, the Permittee shall maintain records of the following for each month of any one of the diesel generators:
  - (1) Identification of generator(s) in service.
  - (2) Operation start time and end time, and total generator hours of operation (example: two generators operating for 3 hours equals 6 generator hours)
  - (3) The status of the Main Boilers MB1 and MB2 during periods of diesel generator operation.
- (b) To document compliance with the requirements in Conditions D.6.2 and D.6.3, the Permittee shall maintain records of all fuel sampling and analysis data, pursuant to 326 IAC 7-2. Records shall be complete and sufficient to establish compliance with the limits in Conditions D.6.2 and D.6.3(b).
- (c) To document compliance with the requirements in Condition D.6.3, the Permittee shall maintain records of all periods of operation of space heaters WHU-1, WHU-2, WHU-5, WHU-6, WHU-7, WHU-8, WHU-9, and WHU-10. These records shall include the times of the start and end of operation, the operating time for that period (in hours) and the total cumulative operating time (in hours) for that calendar month.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.6.6 Record Keeping Requirements

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A quarterly summary of the information to document compliance with Conditions D.6.1 and D.6.3 shall be submitted to the address listed in Section C - General Reporting Requirements, of this approval, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

## SECTION D.7

## FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)] (The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Insignificant Activities [326 IAC 2-7-1(21)]:

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

Cleaners and solvents characterized as follows:

- (1) Having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38 degrees C (100°F) or;
- (2) Having a vapor pressure equal to or less than 0.7 kPa; 5mm Hg; or 0.1 psi measured at 20°C (68°F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.

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

#### D.7.1 Organic Solvent Degreasing Operations: Cold Cleaner Operation [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations constructed after January 1, 1980, the Permittee 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.7.2 Organic Solvent Degreasing Operations: Cold Cleaner Degreaser Operation and Control [326 IAC 8-3-5]

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for cold cleaner degreaser operations without remote solvent reservoirs, constructed after July 1, 1990, the Permittee shall ensure that the following control equipment requirements are met:

- (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
  - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));

- (B) The solvent is agitated; or
    - (C) The solvent is heated.
  - (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
  - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
  - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
  - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
    - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
    - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
    - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility construction of which commenced after July 1, 1990, 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.

## SECTION E

## TITLE IV CONDITIONS

Facility Description [326 IAC 2-7-5(15)] (The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

- (a) One (1) pulverized coal opposed wall fired dry bottom boiler, identified as MB1 (Main Boiler 1), with construction commenced in 1977 and completed in 1984, with a design heat input capacity of 12,374 million Btu per hour, with an electrostatic precipitator (ESP) system for control of particulate matter. Low NO<sub>x</sub> burners and an overfire air (OFA) system have been installed for NO<sub>x</sub> control. No. 2 fuel oil is fired during startup, shutdown, and load stabilization periods. No. 2 fuel oil may also be burned to maintain boiler temperature to ensure boiler availability on short notice, and to maintain boiler temperature required during chemical cleaning. Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO<sub>x</sub>) and for sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitoring (COM) system are located on the common stack.
- (b) One (1) pulverized coal opposed wall fired dry bottom boiler, identified as MB2 (Main Boiler 2), with construction commenced in 1977 and completed in 1989, with a design heat input capacity of 12,374 million Btu per hour, with an electrostatic precipitator (ESP) system for control of particulate matter. Low NO<sub>x</sub> burners and an overfire air (OFA) system for NO<sub>x</sub> control are scheduled for installation in 2004. No. 2 fuel oil is fired during startup, shutdown, and load stabilization periods. No. 2 fuel oil may also be burned to maintain boiler temperature to ensure boiler availability on short notice, and to maintain boiler temperature required during chemical cleaning. Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO<sub>x</sub>) and for sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitoring (COM) system are located on the common stack.

### Acid Rain Program

#### E.1 Acid Rain Permit [326 IAC 2-7-5(1)(C)][326 IAC 21][40 CFR 72 through 40 CFR 78]

Pursuant to 326 IAC 21 (Acid Deposition Control), the Permittee shall comply with all provisions of the Acid Rain permit issued for this source, and any other applicable requirements contained in 40 CFR 72 through 40 CFR 78. The Acid Rain permit for this source is attached to this permit as Attachment B, and is incorporated by reference.

#### E.2 Title IV Emissions Allowances [326 IAC 2-7-5(4)][326 IAC 21]

Emissions exceeding any allowances that the Permittee lawfully holds under the Title IV Acid Rain Program of the Clean Air Act are prohibited, subject to the following limitations:

- (a) No revision of this permit shall be required for increases in emissions that are authorized by allowances acquired under the Title IV Acid Rain Program, provided that such increases do not require a permit revision under any other applicable requirement.
- (b) No limit shall be placed on the number of allowances held by the Permittee. The Permittee may not use allowances as a defense to noncompliance with any other applicable requirement.
- (c) Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act.

**Section F - Reserved**

**SECTION G Clean Air Interstate Rule (CAIR) Nitrogen Oxides Annual, Sulfur Dioxide, and Nitrogen Oxides Ozone Season Trading Programs – CAIR Permit for CAIR Units Under 326 IAC 24-1-1(a), 326 IAC 24-2-1(a), and 326 IAC 24-3-1(a)**

**ORIS Code:** {6166}

CAIR Permit for CAIR Units Under 326 IAC 24-1-1(a), 326 IAC 24-2-1(a), and 326 IAC 24-3-1(a)

- (a) One (1) pulverized coal opposed wall fired dry bottom boiler, identified as MB1 (Main Boiler 1), with construction commenced in 1977 and completed in 1984, with a design heat input capacity of 12,374 million Btu per hour, with an electrostatic precipitator (ESP) system for control of particulate matter. Low NO<sub>x</sub> burners and an overfire air (OFA) system have been installed for NO<sub>x</sub> control. No. 2 fuel oil is fired during startup, shutdown, and load stabilization periods. No. 2 fuel oil may also be burned to maintain boiler temperature to ensure boiler availability on short notice, and to maintain boiler temperature required during chemical cleaning. One (1) powdered activated carbon (PAC) injection system, identified as ACI, permitted in 2008 and 2010, with a combined maximum capacity of injecting 2,100 pounds of activated carbon per hour into the exhaust ductwork for Boilers 1 and 2 (MB1 and MB2). Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO<sub>x</sub>) and for sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitoring (COM) system are located on the common stack.
- (b) One (1) pulverized coal opposed wall fired dry bottom boiler, identified as MB2 (Main Boiler 2), with construction commenced in 1977 and completed in 1989, with a design heat input capacity of 12,374 million Btu per hour, with an electrostatic precipitator (ESP) system for control of particulate matter. Low NO<sub>x</sub> burners and an overfire air (OFA) system for NO<sub>x</sub> control are scheduled for installation in 2004. No. 2 fuel oil is fired during startup, shutdown, and load stabilization periods. No. 2 fuel oil may also be burned to maintain boiler temperature to ensure boiler availability on short notice, and to maintain boiler temperature required during chemical cleaning. One (1) powdered activated carbon (PAC) injection system, identified as ACI, permitted in 2008 and 2010, with a combined maximum capacity of injecting 2,100 pounds of activated carbon per hour into the exhaust ductwork for Boilers 1 and 2 (MB1 and MB2).

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

G.1 Automatic Incorporation of Definitions [326 IAC 24-1-7(e)] [326 IAC 24-2-7(e)] [326 IAC 24-3-7(e)] [40 CFR 97.123(b)] [40 CFR 97.223(b)] [40 CFR 97.323(b)]

This CAIR permit is deemed to incorporate automatically the definitions of terms under 326 IAC 24-1-2, 326 IAC 24-2-2, and 326 IAC 24-3-2.

G.2 Standard Permit Requirements [326 IAC 24-1-4(a)] [326 IAC 24-2-4(a)] [326 IAC 24-3-4(a)] [40 CFR 97.106(a)] [40 CFR 97.206(a)] [40 CFR 97.306(a)]

- (a) The owners and operators of each CAIR NO<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> ozone season source and CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> ozone season unit shall operate each source and unit in compliance with this CAIR permit.
- (b) The CAIR NO<sub>x</sub> unit(s), CAIR SO<sub>2</sub> unit(s), and CAIR NO<sub>x</sub> ozone season unit(s) subject to this CAIR permit are Units MB1 and MB2.

G.3 Monitoring, Reporting, and Record Keeping Requirements [326 IAC 24-1-4(b)]  
[326 IAC 24-2-4(b)] [326 IAC 24-3-4(b)] [40 CFR 97.106(b)] [40 CFR 97.206(b)]  
[40 CFR 97.306(b)]

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- (a) The owners and operators, and the CAIR designated representative, of each CAIR NO<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> ozone season source and CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> ozone season unit at the source shall comply with the applicable monitoring, reporting, and record keeping requirements of 326 IAC 24-1-11, 326 IAC 24-2-10, and 326 IAC 24-3-11.
- (b) The emissions measurements recorded and reported in accordance with 326 IAC 24-1-11, 326 IAC 24-2-10, and 326 IAC 24-3-11 shall be used to determine compliance by each CAIR NO<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> ozone season source with the CAIR NO<sub>x</sub> emissions limitation under 326 IAC 24-1-4(c), CAIR SO<sub>2</sub> emissions limitation under 326 IAC 24-2-4(c), and CAIR NO<sub>x</sub> ozone season emissions limitation under 326 IAC 24-3-4(c) and Condition G.4.1, Nitrogen Oxides Emission Requirements, Condition G.4.2, Sulfur Dioxide Emission Requirements, and Condition G.4.3, Nitrogen Oxides Ozone Season Emission Requirements.

G.4.1 Nitrogen Oxides Emission Requirements [326 IAC 24-1-4(c)] [40 CFR 97.106(c)]

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- (a) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source shall hold, in the source's compliance account, CAIR NO<sub>x</sub> allowances available for compliance deductions for the control period under 326 IAC 24-1-9(i) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO<sub>x</sub> units at the source, as determined in accordance with 326 IAC 24-1-11.
- (b) A CAIR NO<sub>x</sub> unit shall be subject to the requirements under 326 IAC 24-1-4(c)(1) for the control period starting on the applicable date, as determined under 326 IAC 24-1-4(c)(2), and for each control period thereafter.
- (c) A CAIR NO<sub>x</sub> allowance shall not be deducted for compliance with the requirements under 326 IAC 24-1-4(c)(1), for a control period in a calendar year before the year for which the CAIR NO<sub>x</sub> allowance was allocated.
- (d) CAIR NO<sub>x</sub> allowances shall be held in, deducted from, or transferred into or among CAIR NO<sub>x</sub> allowance tracking system accounts in accordance with 326 IAC 24-1-9, 326 IAC 24-1-10, and 326 IAC 24-1-12.
- (e) A CAIR NO<sub>x</sub> allowance is a limited authorization to emit one (1) ton of nitrogen oxides in accordance with the CAIR NO<sub>x</sub> annual trading program. No provision of the CAIR NO<sub>x</sub> annual trading program, the CAIR permit application, the CAIR permit, or an exemption under 326 IAC 24-1-3 and no provision of law shall be construed to limit the authority of the State of Indiana or the United States to terminate or limit the authorization.
- (f) A CAIR NO<sub>x</sub> allowance does not constitute a property right.
- (g) Upon recordation by the U.S. EPA under 326 IAC 24-1-8, 326 IAC 24-1-9, 326 IAC 24-1-10, or 326 IAC 24-1-12, every allocation, transfer, or deduction of a CAIR NO<sub>x</sub> allowance to or from a CAIR NO<sub>x</sub> source's compliance account is incorporated automatically in this CAIR permit.

#### G.4.2 Sulfur Dioxide Emission Requirements [326 IAC 24-2-4(c)] [40 CFR 97.206(c)]

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- (a) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall hold, in the source's compliance account, a tonnage equivalent of CAIR SO<sub>2</sub> allowances available for compliance deductions for the control period under 326 IAC 24-2-8(j) and 326 IAC 24-2-8(k) not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO<sub>2</sub> units at the source, as determined in accordance with 326 IAC 24-2-10.
- (b) A CAIR SO<sub>2</sub> unit shall be subject to the requirements under 326 IAC 24-2-4(c)(1) for the control period starting on the applicable date, as determined under 326 IAC 24-2-4(c)(2), and for each control period thereafter.
- (c) A CAIR SO<sub>2</sub> allowance shall not be deducted for compliance with the requirements under 326 IAC 24-2-4(c)(1), for a control period in a calendar year before the year for which the CAIR SO<sub>2</sub> allowance was allocated.
- (d) CAIR SO<sub>2</sub> allowances shall be held in, deducted from, or transferred into or among CAIR SO<sub>2</sub> allowance tracking system accounts in accordance with 326 IAC 24-2-8, 326 IAC 24-2-9, and 326 IAC 24-2-11.
- (e) A CAIR SO<sub>2</sub> allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO<sub>2</sub> trading program. No provision of the CAIR SO<sub>2</sub> trading program, the CAIR permit application, the CAIR permit, or an exemption under 326 IAC 24-2-3 and no provision of law shall be construed to limit the authority of the State of Indiana or the United States to terminate or limit the authorization.
- (f) A CAIR SO<sub>2</sub> allowance does not constitute a property right.
- (g) Upon recordation by the U.S. EPA under 326 IAC 24-2-8, 326 IAC 24-2-9, or 326 IAC 24-2-11, every allocation, transfer, or deduction of a CAIR SO<sub>2</sub> allowance to or from a CAIR SO<sub>2</sub> source's compliance account is incorporated automatically in this CAIR permit.

#### G.4.3 Nitrogen Oxides Ozone Season Emission Requirements [326 IAC 24-3-4(c)] [40 CFR 97.306(c)]

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- (a) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO<sub>x</sub> ozone season source and each CAIR NO<sub>x</sub> ozone season unit at the source shall hold, in the source's compliance account, CAIR NO<sub>x</sub> ozone season allowances available for compliance deductions for the control period under 326 IAC 24-3-9(i) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO<sub>x</sub> ozone season units at the source, as determined in accordance with 326 IAC 24-3-11.
- (b) A CAIR NO<sub>x</sub> ozone season unit shall be subject to the requirements under 326 IAC 24-3-4(c)(1) for the control period starting on the applicable date, as determined under 326 IAC 24-3-4(c)(2), and for each control period thereafter.
- (c) A CAIR NO<sub>x</sub> ozone season allowance shall not be deducted for compliance with the requirements under 326 IAC 24-3-4(c)(1), for a control period in a calendar year before the year for which the CAIR NO<sub>x</sub> ozone season allowance was allocated.
- (d) CAIR NO<sub>x</sub> ozone season allowances shall be held in, deducted from, or transferred into or among CAIR NO<sub>x</sub> ozone season allowance tracking system accounts in accordance with 326 IAC 24-3-9, 326 IAC 24-3-10, and 326 IAC 24-3-12.

- (e) A CAIR NO<sub>x</sub> ozone season allowance is a limited authorization to emit one (1) ton of nitrogen oxides in accordance with the CAIR NO<sub>x</sub> ozone season trading program. No provision of the CAIR NO<sub>x</sub> ozone season trading program, the CAIR permit application, the CAIR permit, or an exemption under 326 IAC 24-3-3 and no provision of law shall be construed to limit the authority of the State of Indiana or the United States to terminate or limit the authorization.
- (f) A CAIR NO<sub>x</sub> ozone season allowance does not constitute a property right.
- (g) Upon recordation by the U.S. EPA under 326 IAC 24-3-8, 326 IAC 24-3-9, 326 IAC 24-3-10, or 326 IAC 24-3-12, every allocation, transfer, or deduction of a CAIR NO<sub>x</sub> ozone season allowance to or from a CAIR NO<sub>x</sub> ozone season source's compliance account is incorporated automatically in this CAIR permit.

G.5 Excess Emissions Requirements [326 IAC 24-1-4(d)] [326 IAC 24-2-4(d)] [326 IAC 24-3-4(d)]  
[40 CFR 97.106(d)] [40 CFR 97.206(d)] [40 CFR 97.306(d)]

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- (a) The owners and operators of a CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit that emits nitrogen oxides during any control period in excess of the CAIR NO<sub>x</sub> emissions limitation shall do the following:
  - (1) Surrender the CAIR NO<sub>x</sub> allowances required for deduction under 326 IAC 24-1-9(j)(4).
  - (2) Pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, the Clean Air Act (CAA) or applicable state law.

Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 326 IAC 24-1-4, the Clean Air Act (CAA), and applicable state law.

- (b) The owners and operators of a CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit that emits sulfur dioxide during any control period in excess of the CAIR SO<sub>2</sub> emissions limitation shall do the following:
  - (1) Surrender the CAIR SO<sub>2</sub> allowances required for deduction under 326 IAC 24-2-8(k)(4).
  - (2) Pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, the Clean Air Act (CAA) or applicable state law.

Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 326 IAC 24-2-4, the Clean Air Act (CAA), and applicable state law.

- (c) The owners and operators of a CAIR NO<sub>x</sub> ozone season source and each CAIR NO<sub>x</sub> ozone season unit that emits nitrogen oxides during any control period in excess of the CAIR NO<sub>x</sub> ozone season emissions limitation shall do the following:
  - (1) Surrender the CAIR NO<sub>x</sub> ozone season allowances required for deduction under 326 IAC 24-3-9(j)(4).
  - (2) Pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, the Clean Air Act (CAA) or applicable state law.

Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 326 IAC 24-3-4, the Clean Air Act (CAA), and applicable state law.

G.6 Record Keeping Requirements [326 IAC 24-1-4(e)] [326 IAC 24-2-4(e)] [326 IAC 24-3-4(e)]  
[326 IAC 2-7-5(3)] [40 CFR 97.106(e)] [40 CFR 97.206(e)] [40 CFR 97.306(e)]

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Unless otherwise provided, the owners and operators of the CAIR NO<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> ozone season source and each CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> ozone season unit at the source shall keep on site at the source or at a central location within Indiana for those owners or operators with unattended sources, each of the following documents for a period of five (5) years from the date the document was created:

- (a) The certificate of representation under 326 IAC 24-1-6(h), 326 IAC 24-2-6(h), and 326 IAC 24-3-6(h) for the CAIR designated representative for the source and each CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> ozone season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation. The certificate and documents shall be retained on site at the source or at a central location within Indiana for those owners or operators with unattended sources beyond such five (5) year period until such documents are superseded because of the submission of a new account certificate of representation under 326 IAC 24-1-6(h), 326 IAC 24-2-6(h), and 326 IAC 24-3-6(h) changing the CAIR designated representative.
- (b) All emissions monitoring information, in accordance with 326 IAC 24-1-11, 326 IAC 24-2-10, and 326 IAC 24-3-11, provided that to the extent that 326 IAC 24-1-11, 326 IAC 24-2-10, and 326 IAC 24-3-11 provides for a three (3) year period for record keeping, the three (3) year period shall apply.
- (c) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO<sub>x</sub> annual trading program, CAIR SO<sub>2</sub> trading program, and CAIR NO<sub>x</sub> ozone season trading program.
- (d) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NO<sub>x</sub> annual trading program, CAIR SO<sub>2</sub> trading program, and CAIR NO<sub>x</sub> ozone season trading program or to demonstrate compliance with the requirements of the CAIR NO<sub>x</sub> annual trading program, CAIR SO<sub>2</sub> trading program, and CAIR NO<sub>x</sub> ozone season trading program.

This period may be extended for cause, at any time before the end of five (5) years, in writing by IDEM, OAQ or the U.S. EPA. Unless otherwise provided, all records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

G.7 Reporting Requirements [326 IAC 24-1-4(e)] [326 IAC 24-2-4(e)] [326 IAC 24-3-4(e)]  
[40 CFR 97.106(e)] [40 CFR 97.206(e)] [40 CFR 97.306(e)]

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- (a) The CAIR designated representative of the CAIR NO<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> ozone season source and each CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> ozone season unit at the source shall submit the reports required under the CAIR NO<sub>x</sub> annual trading program, CAIR SO<sub>2</sub> trading program, and CAIR NO<sub>x</sub> ozone season trading program, including those under 326 IAC 24-1-11, 326 IAC 24-2-10, and 326 IAC 24-3-11.

- (b) Pursuant to 326 IAC 24-1-4(e), 326 IAC 24-2-4(e), and 326 IAC 24-3-4(e) and 326 IAC 24-1-6(e)(1), 326 IAC 24-2-6(e)(1), and 326 IAC 24-3-6(e)(1), each submission under the CAIR NO<sub>x</sub> annual trading program, CAIR SO<sub>2</sub> trading program, and CAIR NO<sub>x</sub> ozone season trading program shall include the following certification statement by the CAIR designated representative: "I am authorized to make this submission on behalf of the owners and operators of the source or units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."
- (c) Where 326 IAC 24-1, 326 IAC 24-2, and 326 IAC 24-3 requires a submission to IDEM, OAQ, the information shall be submitted to:

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

- (d) Where 326 IAC 24-1, 326 IAC 24-2, and 326 IAC 24-3 requires a submission to U.S. EPA, the information shall be submitted to:

U.S. Environmental Protection Agency  
Clean Air Markets Division  
1200 Pennsylvania Avenue, NW  
Mail Code 6204N  
Washington, DC 20460

G.8 Liability [326 IAC 24-1-4(f)] [326 IAC 24-2-4(f)] [326 IAC 24-3-4(f)] [40 CFR 97.106(f)]  
[40 CFR 97.206(f)] [40 CFR 97.306(f)]

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The owners and operators of each CAIR NO<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> ozone season source and each CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> ozone season unit shall be liable as follows:

- (a) Each CAIR NO<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> ozone season source and each CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> ozone season unit shall meet the requirements of the CAIR NO<sub>x</sub> annual trading program, CAIR SO<sub>2</sub> trading program, and CAIR NO<sub>x</sub> ozone season trading program.
- (b) Any provision of the CAIR NO<sub>x</sub> annual trading program, CAIR SO<sub>2</sub> trading program, and CAIR NO<sub>x</sub> ozone season trading program that applies to a CAIR NO<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> ozone season source or the CAIR designated representative of a CAIR NO<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> ozone season source shall also apply to the owners and operators of such source and of the CAIR NO<sub>x</sub> units, CAIR SO<sub>2</sub> units, and CAIR NO<sub>x</sub> ozone season units at the source.
- (c) Any provision of the CAIR NO<sub>x</sub> annual trading program, CAIR SO<sub>2</sub> trading program, and CAIR NO<sub>x</sub> ozone season trading program that applies to a CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> ozone season unit or the CAIR designated representative of a CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> ozone season unit shall also apply to the owners and operators of such unit.

G.9 Effect on Other Authorities [326 IAC 24-1-4(g)] [326 IAC 24-2-4(g)] [326 IAC 24-3-4(g)]  
[40 CFR 97.106(g)] [40 CFR 97.206(g)] [40 CFR 97.306(g)]

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No provision of the CAIR NO<sub>x</sub> annual trading program, CAIR SO<sub>2</sub> trading program, and CAIR NO<sub>x</sub> ozone season trading program, a CAIR permit application, a CAIR permit, or an exemption under 326 IAC 24-1-3, 326 IAC 24-2-3, and 326 IAC 24-3-3 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> ozone season source or CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> ozone season unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act (CAA).

G.10 CAIR Designated Representative and Alternate CAIR Designated Representative  
[326 IAC 24-1-6] [326 IAC 24-2-6] [326 IAC 24-3-6] [40 CFR 97, Subpart BB] [40 CFR 97,  
Subpart BBB] [40 CFR 97, Subpart BBBB]

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Pursuant to 326 IAC 24-1-6, 326 IAC 24-2-6, and 326 IAC 24-3-6:

- (a) Except as specified in 326 IAC 24-1-6(f)(3), 326 IAC 24-2-6(f)(3), and 326 IAC 24-3-6(f)(3), each CAIR NO<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> ozone season source, including all CAIR NO<sub>x</sub> units, CAIR SO<sub>2</sub> units, and CAIR NO<sub>x</sub> ozone season units at the source, shall have one (1) and only one (1) CAIR designated representative, with regard to all matters under the CAIR NO<sub>x</sub> annual trading program, CAIR SO<sub>2</sub> trading program, and CAIR NO<sub>x</sub> ozone season trading program concerning the source or any CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> ozone season unit at the source.
- (b) The provisions of 326 IAC 24-1-6(f), 326 IAC 24-2-6(f), and 326 IAC 24-3-6(f) shall apply where the owners or operators of a CAIR NO<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> ozone season source choose to designate an alternate CAIR designated representative.

Except as specified in 326 IAC 24-1-6(f)(3), 326 IAC 24-2-6(f)(3), and 326 IAC 24-3-6(f)(3), whenever the term "CAIR designated representative" is used, the term shall be construed to include the CAIR designated representative or any alternate CAIR designated representative.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
PART 70 OPERATING PERMIT  
CERTIFICATION**

Source Name: Indiana Michigan Power Co. dba American Electric Power-Rockport Plant  
Source Address: 2791 North US Highway 231, Rockport, Indiana 47635  
Mailing Address: 2791 North US Highway 231, Rockport, IN 47635  
Part 70 Permit No.: T147-6786-00020

**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 and Enforcement Branch**  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
Phone: (317) 233-0178  
Fax: (317) 233-6865

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

Source Name: Indiana Michigan Power Co. dba American Electric Power-Rockport Plant  
Source Address: 2791 North US Highway 231, Rockport, Indiana 47635  
Mailing Address: 2791 North US Highway 231, Rockport, IN 47635  
Part 70 Permit No.: T147-6786-00020

**This form consists of 2 pages**

**Page 1 of 2**

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

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

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

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

**Page 2 of 2**

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

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

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

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

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

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF AIR QUALITY  
 Compliance and Enforcement Branch**

**Part 70 Quarterly Report: Auxiliary Boiler Hours of Operation**

Source Name: Indiana Michigan Power Company (d.b.a. American Electric Power) Rockport Plant  
 Source Address: 2791 North US Highway 231, Rockport, Indiana 47635  
 Mailing Address: c/o Manager, Air Quality Services, American Electric Power  
 1 Riverside Plaza, Columbus, OH 43215  
 Part 70 Permit No.: T147-6786-00020  
 Facilities: Auxiliary Boilers 1 and 2  
 Parameter: NSPS Alternate Opacity Monitoring Approval  
 Limits: Neither boiler shall be operated more than 876 hours in a calendar year.

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

Month	THIS MONTH Hours of operation for each Auxiliary Boiler	PREVIOUS TOTAL Hours of Operation in this Calendar Year, for each Auxiliary Boiler	12 MONTH TOTAL hours of operation for each Auxiliary Boiler
	Aux Boiler 1:	Aux Boiler 1:	Aux Boiler 1:
	Aux Boiler 2:	Aux Boiler 2:	Aux Boiler 2:
	Aux Boiler 1:	Aux Boiler 1:	Aux Boiler 1:
	Aux Boiler 2:	Aux Boiler 2:	Aux Boiler 2:
	Aux Boiler 1:	Aux Boiler 1:	Aux Boiler 1:
	Aux Boiler 2:	Aux Boiler 2:	Aux Boiler 2:

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

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

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

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

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

Telephone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF AIR QUALITY  
 Compliance and Enforcement Branch**

**Part 70 Quarterly Report: Emergency Generators Hours of Operation**

Source Name: Indiana Michigan Power Company (d.b.a. American Electric Power) Rockport Plant  
 Source Address: 2791 North US Highway 231, Rockport, Indiana 47635  
 Mailing Address: c/o Manager, Air Quality Services, American Electric Power  
 1 Riverside Plaza, Columbus, OH 43215  
 Part 70 Permit No.: T147-6786-00020  
 Facilities: Diesel Generators DG1, DG2, DG3  
 Parameter: NO<sub>x</sub>  
 Limits: 780 hours total per twelve (12) consecutive month period for all three generators during periods when both main boilers, Unit 1 and Unit 2, are in service.

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

Month	THIS MONTH Hours of operation for each generator	THIS MONTH Hours of generator operation when both main boilers were in operation	PREVIOUS 11 MONTHS TOTAL hours of generator operation when both main boilers were in operation	12 MONTH TOTAL hours of generator operation when both main boilers were in operation
	DG1:	DG1:		
	DG2:	DG2:		
	DG3:	DG3:		
	DG1:	DG1:		
	DG2:	DG2:		
	DG3:	DG3:		
	DG1:	DG1:		
	DG2:	DG2:		
	DG3:	DG3:		

- 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 and Enforcement Branch**

**Part 70 Quarterly Report: Space Heaters Hours of Operation**

Source Name: Indiana Michigan Power Company (d.b.a. American Electric Power) Rockport Plant  
 Source Address: 2791 North US Highway 231, Rockport, Indiana 47635  
 Mailing Address: c/o Manager, Air Quality Services, American Electric Power  
 1 Riverside Plaza, Columbus, OH 43215  
 Part 70 Permit No.: T147-6786-00020  
 Facility: Space Heaters WHU-1, WHU-2, WHU-5, WHU-6, WHU-7, WHU-8, WHU-9, and WHU-10  
 Parameter: Sulfur Dioxide (SO<sub>2</sub>)  
 Limit: <40 tons per year of SO<sub>2</sub> emissions per consecutive 12-month period, with compliance determined at the end of each month. SO<sub>2</sub> emissions are calculated using the following equation:

$$\text{SO}_2 \text{ Emissions (per month)} = \frac{142 \times S\% \times 22.55 \text{ MMBtu/hr} \times \text{Hr (hrs/month)}}{\text{H (MMBtu/kgal)} \times 2000 \text{ (lb/ton)}}$$

Where: SO<sub>2</sub> Emission Limit (S) = (142 X S%) lbs per kilogallons  
 Monthly Average Sulfur Content = S (%)  
 Heat Input Capacity = 22.55 MMBtu/hr  
 Operating Hours = Hr (hrs/month)  
 Monthly Average Fuel Heating Value = H (MMBtu/kgal)

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

Month	Total SO <sub>2</sub> This Month	Total SO <sub>2</sub> Previous 11 Months	12 Month Total SO <sub>2</sub>
Month 1			
Month 2			
Month 3			

1. facility consists of seven (7) No. 2 fuel oil fired space heaters
2. Hours of operation Last 12 Months = Sum of Hours of Operation Over the Last 12 Months

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

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

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

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

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

Telephone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
Compliance and Enforcement Branch**

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

Source Name: Indiana Michigan Power Company (d.b.a. American Electric Power) Rockport Plant  
Source Address: 2791 North US Highway 231, Rockport, Indiana 47635  
Mailing Address: c/o Manager, Air Quality Services, American Electric Power  
1 Riverside Plaza, Columbus, OH 43215  
Part 70 Permit No.: T147-6786-00020

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

Page 1 of 2

This report shall be submitted quarterly based on a calendar year. For the purpose of this permit, "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. 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".

NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

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:**

**Page 2 of 2 of Quarterly Deviation And Compliance Monitoring Report**

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

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

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

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

Telephone: \_\_\_\_\_

Attach a signed certification to complete this report.

## Attachment A – Standards of Performance for Coal Preparation Plants [40 CFR Part 60, Subpart Y] [326 IAC 12]

### Source Description and Location

Source Name:	Indiana Michigan Power Co. dba American Electric Power-Rockport Plant
Source Location:	2791 North US Highway 231, Rockport, IN 47635
County:	Spencer
SIC Code:	4911
Significant Permit Modification No.:	147-29169-00020
Permit Reviewer:	Jillian Bertram

### NSPS [40 CFR Part 60, Subpart Y]

#### Subpart Y—Standards of Performance for Coal Preparation Plants

##### § 60.250 Applicability and designation of affected facility.

(a) The provisions of this subpart are applicable to any of the following affected facilities in coal preparation plants which process more than 181 Mg (200 tons) per day: Thermal dryers, pneumatic coal-cleaning equipment (air tables), coal processing and conveying equipment (including breakers and crushers), coal storage systems, and coal transfer and loading systems.

(b) Any facility under paragraph (a) of this section that commences construction or modification after October 24, 1974, is subject to the requirements of this subpart.

[42 FR 37938, July 25, 1977; 42 FR 44812, Sept. 7, 1977, as amended at 65 FR 61757, Oct. 17, 2000]

##### § 60.251 Definitions.

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

(a) *Coal preparation plant* means any facility (excluding underground mining operations) which prepares coal by one or more of the following processes: breaking, crushing, screening, wet or dry cleaning, and thermal drying.

(b) *Bituminous coal* means solid fossil fuel classified as bituminous coal by ASTM Designation D388–77, 90, 91, 95, or 98a (incorporated by reference—see §60.17).

(c) *Coal* means all solid fossil fuels classified as anthracite, bituminous, subbituminous, or lignite by ASTM Designation D388–77, 90, 91, 95, or 98a (incorporated by reference—see §60.17).

(d) *Cyclonic flow* means a spiraling movement of exhaust gases within a duct or stack.

(e) *Thermal dryer* means any facility in which the moisture content of bituminous coal is reduced by contact with a heated gas stream which is exhausted to the atmosphere.

(f) *Pneumatic coal-cleaning equipment* means any facility which classifies bituminous coal by size or separates bituminous coal from refuse by application of air stream(s).

(g) *Coal processing and conveying equipment* means any machinery used to reduce the size of coal or to separate coal from refuse, and the equipment used to convey coal to or remove coal and refuse from the machinery. This includes, but is not limited to, breakers, crushers, screens, and conveyor belts.

(h) *Coal storage system* means any facility used to store coal except for open storage piles.

(i) *Transfer and loading system* means any facility used to transfer and load coal for shipment.

[41 FR 2234, Jan. 15, 1976, as amended at 48 FR 3738, Jan. 27, 1983; 65 FR 61757, Oct. 17, 2000]

#### **§ 60.252 Standards for particulate matter.**

(a) On and after the date on which the performance test required to be conducted by §60.8 is completed, an owner or operator subject to the provisions of this subpart shall not cause to be discharged into the atmosphere from any thermal dryer gases which:

(1) Contain particulate matter in excess of 0.070 g/dscm (0.031 gr/dscf).

(2) Exhibit 20 percent opacity or greater.

(b) On and after the date on which the performance test required to be conducted by §60.8 is completed, an owner or operator subject to the provisions of this subpart shall not cause to be discharged into the atmosphere from any pneumatic coal cleaning equipment, gases which:

(1) Contain particulate matter in excess of 0.040 g/dscm (0.017 gr/dscf).

(2) Exhibit 10 percent opacity or greater.

(c) On and after the date on which the performance test required to be conducted by §60.8 is completed, an owner or operator subject to the provisions of this subpart shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal, gases which exhibit 20 percent opacity or greater.

[41 FR 2234, Jan. 15, 1976, as amended at 65 FR 61757, Oct. 17, 2000]

#### **§ 60.253 Monitoring of operations.**

(a) The owner or operator of any thermal dryer shall install, calibrate, maintain, and continuously operate monitoring devices as follows:

(1) A monitoring device for the measurement of the temperature of the gas stream at the exit of the thermal dryer on a continuous basis. The monitoring device is to be certified by the manufacturer to be accurate within  $\pm 1.7$  °C ( $\pm 3$  °F).

(2) For affected facilities that use venturi scrubber emission control equipment:

(i) A monitoring device for the continuous measurement of the pressure loss through the venturi constriction of the control equipment. The monitoring device is to be certified by the manufacturer to be accurate within  $\pm 1$  inch water gauge.

(ii) A monitoring device for the continuous measurement of the water supply pressure to the control equipment. The monitoring device is to be certified by the manufacturer to be accurate within  $\pm 5$  percent of design water supply pressure. The pressure sensor or tap must be located close to the water discharge point. The Administrator may be consulted for approval of alternative locations.

(b) All monitoring devices under paragraph (a) of this section are to be recalibrated annually in accordance with procedures under §60.13(b).

[41 FR 2234, Jan. 15, 1976, as amended at 54 FR 6671, Feb. 14, 1989; 65 FR 61757, Oct. 17, 2000]

**§ 60.254 Test methods and procedures.**

(a) In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in §60.8(b).

(b) The owner or operator shall determine compliance with the particular matter standards in §60.252 as follows:

(1) Method 5 shall be used to determine the particulate matter concentration. The sampling time and sample volume for each run shall be at least 60 minutes and 0.85 dscm (30 dscf). Sampling shall begin no less than 30 minutes after startup and shall terminate before shutdown procedures begin.

(2) Method 9 and the procedures in §60.11 shall be used to determine opacity.



*Mitchell E. Daniels*  
Governor

*Thomas W. Easterly*  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
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## Attachment B

# TITLE IV (ACID RAIN) PERMIT RENEWAL OFFICE OF AIR QUALITY

**Rockport Plant – Indiana Michigan Power Company  
dba American Electric Power (AEP)  
2791 North U.S. Highway 231  
Rockport, Indiana 47635**

**ORIS: 6166**

The owners and operators (hereinafter collectively known as the Permittee) of the above source are issued this permit under the provisions of 326 Indiana Administrative Code (IAC) 21 with conditions listed on the attached pages.

Operation Permit No.: AR 147-16151-00020	
Issued by: Original Signed By: Nisha Sizemore, Chief Office of Air Quality	Issuance Date: August 17, 2006  Expiration Date: August 17, 2011

### Title IV Operating Conditions

Title IV Source Description:

- (a) One (1) pulverized coal opposed wall fired dry bottom boiler, identified as Unit MB1 (MB1 in the Title V permit), with construction commenced in 1977 and completed in 1984, with a design heat input capacity of 12,374 million Btu per hour, with an electrostatic precipitator (ESP) system for control of particulate matter. Low NOx burners and an overfire air (OFA) system have been installed for NOx control. No. 2 fuel oil is fired during startup, shutdown, and load stabilization periods. No. 2 fuel oil may also be burned to maintain boiler temperature to ensure boiler availability on short notice, and to maintain boiler temperature required during chemical cleaning. Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NOx) and for sulfur dioxide (SO2) and a continuous opacity monitoring (COM) system are located on the common stack.
- (b) One (1) pulverized coal opposed wall fired dry bottom boiler, identified as Unit MB2 (MB2 in the Title V permit), with construction commenced in 1977 and completed in 1989, with a design heat input capacity of 12,374 million Btu per hour, with an electrostatic precipitator (ESP) system for control of particulate matter. Low NOx burners and an overfire air (OFA) system for NOx control are scheduled for installation in 2004. No. 2 fuel oil is fired during startup, shutdown, and load stabilization periods. No. 2 fuel oil may also be burned to maintain boiler temperature to ensure boiler availability on short notice, and to maintain boiler temperature required during chemical cleaning. Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NOx) and for sulfur dioxide (SO2) and a continuous opacity monitoring (COM) system are located on the common stack.

(The information contained in this box is descriptive information and does not constitute enforceable conditions.)

1. Statutory and Regulatory Authorities

In accordance with IC 13-17-3-4 and IC 13-17-3-11 as well as Titles IV and V of the Clean Air Act, the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) issues this permit pursuant to 326 IAC 2 and 326 IAC 21 (incorporates by reference 40 Code of Federal Regulations (CFR) 72 through 78).

2. Standard Permit Requirements [326 IAC 21]

- (a) The designated representative has submitted a complete acid rain permit application in accordance with in 40 CFR 72.30.
- (b) The Permittee shall operate Units MB1 and MB2 in compliance with this permit.

3. Monitoring Requirements [326 IAC 21]

- (a) The Permittee and, to the extent applicable, the designated representative of Units MB1 and MB2 shall comply with the monitoring requirements as provided in 40 CFR 75 and 76.
- (b) The emissions measurements recorded and reported in accordance with 40 CFR 75 and 76 shall be used to determine compliance by Units MB1 and MB2 with the acid rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (c) The requirements of 40 CFR 75 and 76 shall not affect the responsibility of the Permittee to monitor emissions of other pollutants or other emissions characteristics at Units MB1 and MB2 under other applicable requirements of the Clean Air Act and other provisions of the operating permit for the source.

4. Sulfur Dioxide Requirements [326 IAC 21]

- (a) The Permittee shall:
- (1) Hold allowances, as of the allowance transfer deadline (as defined in 40 CFR 72.2), in the compliance subaccount of Units MB1 and MB2, after deductions under 40 CFR 73.34(c), not less than the total annual emissions of sulfur dioxide for the previous calendar year from Units MB1 and MB2; and,
  - (2) Comply with the applicable acid rain emissions limitations for sulfur dioxide.
- (b) Each ton of sulfur dioxide emitted in excess of the acid rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Clean Air Act.
- (c) Units MB1 and MB2 shall be subject to the requirements under paragraph 4(a) of the sulfur dioxide requirements as follows:
- (1) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or,
  - (2) Starting on the latter of January 1, 2000, or the deadline for monitor certification under 40 CFR 75, an affected unit under 40 CFR 72.6(a)(3).
- (d) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
- (e) An allowance shall not be deducted in order to comply with the requirements under paragraph 4(a) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (f) An allowance allocated by the U.S. EPA under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the acid rain permit application, the acid rain permit, the acid rain portion of an operating permit, or the written exemption under 40 CFR 72.7 and 72.8 and 326 IAC 21, and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (g) An allowance allocated by U.S. EPA under the Acid Rain Program does not constitute a property right.
- (h) No permit revision may be required for increases in emissions that are authorized by allowances acquired pursuant to the Acid Rain Program, provided that the increases do not require a permit revision under any other applicable requirement. [326 IAC 2-7-5(4)(A)]
- (i) No limit shall be placed on the number of allowances held by the Permittee. The Permittee may not, however, use allowances as a defense to noncompliance with any applicable requirement other than the requirements of the Acid Rain Program. [326 IAC 2-7-5(4)(B)]
- (j) Sulfur dioxide allowances shall be allocated to each unit at the source as follows:

SO <sub>2</sub> Annual Allowance Allocations (tons)					
	2005	2006	2007	2008	2009
Unit MB1	32,992*	33003*	33003*	33003*	33003*
Unit MB2	32,992*	33003**	33003**	33003*	33003*

\* The number of allowances allocated to Phase II affected units by U.S. EPA may change in a revision to 40 CFR 73 Tables 2, 3 and 4 and 326 IAC 21. In addition, the number of allowances actually held by an affected source in a unit account may differ from the number allocated by U.S.

EPA. Neither of the aforementioned conditions necessitates a revision to the unit SO<sub>2</sub> allowance allocations identified in this permit. (See 40 CFR 72.84)

5. Nitrogen Oxides Requirements [326 IAC 21]

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- (a) The Permittee shall comply with the applicable acid rain emissions limitation of nitrogen oxides (NO<sub>x</sub>) for Units MB1 and MB2.
- (b) NO<sub>x</sub> Early Election Compliance Plan for Unit MB1:
- (1) Pursuant to 40 CFR 76.8(d)(2), the Indiana Department of Environmental Management, Office of Air Quality approves a NO<sub>x</sub> early election compliance plan for Unit MB1. The compliance plan is effective for calendar years 2000 through 2007. Under the compliance plan, the annual average NO<sub>x</sub> emission rate from Unit MB1 for each year, determined in accordance with 40 CFR 75, shall not exceed the applicable emission limitation, under 40 CFR 76.5(a)(2) of 0.50 lb/MMBtu for dry bottom wall-fired boilers. If Unit MB1 is in compliance with its applicable emission limitation for each year of the plan, then Unit MB1 shall not be subject to the applicable emission limitation, under 40 CFR 76.7(a)(2), or 0.46 lb/MMBtu for dry bottom wall-fired boilers until calendar year 2008.
  - (2) Permittee must annually demonstrate that Unit MB1 meets the NO<sub>x</sub> emission limit of 0.50 lb/ MMBtu by showing that emissions at the common stack (through which all emissions from units MB1 and MB2 are vented) meet such limit, based upon the data from certified continuous emission monitoring systems (CEMS) at common stack CS012. CEMS certification must be performed in accordance with the requirements and specifications delineated at 40 CFR 75.
- (c) NO<sub>x</sub> Early Election Compliance Plan for Unit MB2:
- (1) Pursuant to 40 CFR 76.8(d)(2), the Indiana Department of Environmental Management, Office of Air Quality approves a NO<sub>x</sub> early election compliance plan for Unit MB2. The compliance plan is effective for calendar years 2000 through 2007. Under the compliance plan, the annual average NO<sub>x</sub> emission rate from Unit MB2 for each year, determined in accordance with 40 CFR 75, shall not exceed the applicable emission limitation, under 40 CFR 76.5(a)(2) of 0.50 lb/ MMBtu for dry bottom wall-fired boilers. If Unit MB2 is in compliance with its applicable emission limitation for each year of the plan, then Unit MB2 shall not be subject to the applicable emission limitation, under 40 CFR 76.7(a)(2), or 0.46 lb/ MMBtu for dry bottom wall-fired boilers until calendar year 2008.
  - (2) Permittee must annually demonstrate that Unit MB2 meets the NO<sub>x</sub> emission limit of 0.50 lb/ MMBtu by showing that emissions at the common stack (through which all emissions from units MB1 and MB2 are vented) meet such limit, based upon the data from certified continuous emission monitoring systems (CEMS) at common stack CS012. CEMS certification must be performed in accordance with the requirements and specifications delineated at 40 CFR 75.
- (d) NO<sub>x</sub> Emission Averaging Plan for Unit MB1:
- (1) Pursuant to 40 CFR 76.11, the Indiana Department of Environmental Management, Office of Air Quality approves a NO<sub>x</sub> emissions averaging plan for Unit MB1, effective from calendar years 2005 through 2006. Under the plan the NO<sub>x</sub> emissions from Unit MB1 shall not exceed the annual average alternative contemporaneous emission limitation (ACEL) of 0.46 lb/MMBtu. In addition, Unit MB1 shall not have an annual heat input greater than 94,595,000 MMBtu.
  - (2) Notwithstanding the averaging plan described above, if Unit MB1 exceeds its applicable NO<sub>x</sub> emission limitation under 40 CFR 76.8 (early election) of 0.50 lb/MMBtu for dry bottom wall-fired boilers, the early election plan for Unit MB1

shall be terminated in accordance with 40 CFR 76.8(e)(3) and Unit MB1 shall meet, beginning on the effective date of the termination, the applicable NOx emission limitation under 40 CFR 76.7. Such termination shall not terminate the averaging plan described above.

- (e) NOx Emission Averaging Plan for Unit MB2:
- (1) Pursuant to 40 CFR 76.11, the Indiana Department of Environmental Management, Office of Air Quality approves a NOx emissions averaging plan for Unit MB2, effective from calendar years 2005 through 2006. Under the plan the NOx emissions from Unit MB2 shall not exceed the annual average alternative contemporaneous emission limitation (ACEL) of 0.46 lb/MMBtu. In addition, Unit MB2 shall not have an annual heat input greater than 82,260,000 MMBtu.
  - (2) Notwithstanding the averaging plan described above, if Unit MB2 exceeds its applicable NOx emission limitation under 40 CFR 76.8 (early election) of 0.50 lb/MMBtu for dry bottom wall-fired boilers, the early election plan for Unit MB2 shall be terminated in accordance with 40 CFR 76.8(e)(3) and Unit MB2 shall meet, beginning on the effective date of the termination, the applicable NOx emission limitation under 40 CFR 76.7. Such termination shall not terminate the averaging plan described above.
- (f) Under the plan, the actual Btu-weighted annual average NOx emission rate for Units MB1 and MB2 in the plan shall be less than or equal to the Btu-weighted annual average NOx emission rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations under 40 CFR 76.5, 76.6, or 76.7, except that for any early election units, the applicable emission limitations shall be under 40 CFR 76.7. If the designated representative demonstrates that the requirement of the prior sentence (as set forth in 40 CFR 76.11(d)(1)(ii)(A)) is met for a year under the plan, then Units MB1 and MB2 shall be deemed to be in compliance for that year with its annual ACEL and annual heat input limit.
- (g) In accordance with 40 CFR 72.40(b)(2), approval of the averaging plan shall be final only when the Ohio Environmental Protection Agency, Division of Air Pollution Control; the Kentucky Department of Environmental Protection, Division of Air Quality; Virginia Department of Environmental Quality, Air division; and the West Virginia Department of Environmental Protection, Division of Air Quality have also approved this averaging plan.
- (h) In addition to the described NOx compliance plan, Units MB1 and MB2 shall comply with all other applicable requirements of 40 CFR 76, including the duty to reapply for a NOx compliance plan and requirements covering excess emissions.

6. Excess Emissions Requirements [40 CFR 77] [326 IAC 21]

- (a) If Unit MB1 or MB2 has excess emissions of sulfur dioxide in any calendar year, the designated representative shall submit a proposed offset plan to U.S. EPA and IDEM, OAQ as required under 40 CFR 77 and 326 IAC 21.
- (b) The designated representative shall submit required information to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

and

Ms. Cecilia Mijares  
Air and Radiation Division  
U.S. Environmental Protection Agency, Region V

77 West Jackson Boulevard  
Chicago, IL 60604-3590

and

U.S. Environmental Protection Agency  
Clean Air Markets Division  
1200 Pennsylvania Avenue, NW  
Mail Code (6204N)  
Washington, DC 20460

- (c) If Unit MB1 or MB2 has excess emissions, as defined in 40 CFR 72.2, in any calendar year the Permittee shall:
- (1) Pay to U.S. EPA without demand the penalty required, and pay to U.S. EPA upon demand the interest on that penalty, as required by 40 CFR 77 and 326 IAC 21; and,
  - (2) Comply with the terms of an approved sulfur dioxide offset plan, as required by 40 CFR 77 and 326 IAC 21.

7. Record Keeping and Reporting Requirements [326 IAC 21]

- (a) Unless otherwise provided, the Permittee shall keep on site each of the following documents for a period of 5 years, as required by 40 CFR 72.9(f), from the date the document is created. This period may be extended for cause, at any time prior to the end of the 5 years, in writing by U.S. EPA or IDEM, OAQ:
- (1) The certificate of representation for the designated representative of Units MB1 and MB2 and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5 year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
  - (2) All emissions monitoring information collected in accordance with 40 CFR 75 shall be retained on site for 3 years;
  - (3) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
  - (4) Copies of all documents used to complete an acid rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
- (b) The designated representative of Units MB1 and MB2 shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR 72.90, Subpart I, 40 CFR 75, and 326 IAC 21. The required information is to be submitted to the appropriate authority(ies) as specified in 40 CFR 72.90, Subpart I, and 40 CFR 75.

8. Submissions [326 IAC 21]

- (a) The designated representative of Units MB1 and MB2 shall submit a certificate of representation, and any superseding certificate of representation, to U.S. EPA and IDEM, OAQ in accordance with 40 CFR 72 and 326 IAC 21.
- (b) The designated representative shall submit required information to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality

100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

and

U.S. Environmental Protection Agency  
Clean Air Markets Division  
1200 Pennsylvania Avenue, NW  
Mail Code (6204N)  
Washington, DC 20460

- (c) Each such submission under the Acid Rain Program shall be submitted, signed and certified by the designated representative for all sources on behalf of which the submission is made.
- (d) In each submission under the Acid Rain Program, the designated representative shall certify, by his or her signature, the following statements which shall be included verbatim in the submission:
  - (1) "I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made.", and
  - (2) "I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."
- (e) The designated representative of Units MB1 and MB2 shall notify the Permittee:
  - (1) By the date of submission, of any Acid Rain Program submissions by the designated representative;
  - (2) Within 10 business days of receipt of any written determination by U.S. EPA or IDEM, OAQ; and
  - (3) Provided that the submission or determination covers Unit MB1 or MB2.
- (f) The designated representative of Units MB1 and MB2 shall provide the Permittee a copy of any submission or determination under paragraph 8(e), unless the Permittee expressly waives the right to receive a copy.

9. Severability [326 IAC 21]

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Invalidation of the acid rain portion of an operating permit does not affect the continuing validity of the rest of the operating permit, nor shall invalidation of any other portion of the operating permit affect the continuing validity of the acid rain portion of the permit. [40 CFR 72.72(b), 326 IAC 21, and 326 IAC 2-7-5(5)]

10. Liability [326 IAC 21]

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- (a) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, an acid rain permit, an acid rain portion of an operation permit, or a written exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement by U.S. EPA pursuant to Section 113(c) of the Clean Air Act and shall be subject to enforcement by IDEM pursuant to 326 IAC 21 and IC 13-30-3.

- (b) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to Section 113(c) of the Clean Air Act, 18 U.S.C. 1001 and IDEM pursuant to 326 IAC 21 and IC 13-30-6-2.
- (c) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
- (d) Units MB1 and MB2 shall meet the requirements of the Acid Rain Program.
- (e) Any provision of the Acid Rain Program that applies to Unit MB1 or MB2, including a provision applicable to the designated representative of Unit MB1 or MB2, shall also apply to the Permittee.
- (f) Any provision of the Acid Rain Program that applies to Unit MB1 or MB2, including a provision applicable to the designated representative of Units MB1 and MB2, shall also apply to the Permittee. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NOx averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR 75, including 40 CFR 75.16, 75.17, and 75.18, the Permittee and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
- (g) Each violation of a provision of 40 CFR 72, 73, 75, 76, 77, and 78 by Units MB1 and MB2, or by the Permittee or designated representative shall be a separate violation of the Clean Air Act.

11. Effect on Other Authorities [326 IAC 21]

No provision of the Acid Rain Program, an acid rain permit application, an acid rain permit, an acid rain portion of an operation permit, or a written exemption under 40 CFR 72.7 or 72.8 shall be construed as:

- (a) Except as expressly provided in Title IV of the Clean Air Act (42 USC 7651 to 7651(o)), exempting or excluding the Permittee and, to the extent applicable, the designated representative of Unit MB1 or MB2 from compliance with any other provision of the Clean Air Act, including the provisions of Title I of the Clean Air Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
- (b) Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Clean Air Act;
- (c) Requiring a change of any kind in any state law regulating electric utility rates and charges, affecting any state law regarding such state regulation, or limiting such state regulation, including any prudence review requirements under such state law;
- (d) Modifying the Federal Power Act (16 USC 791(a) et seq.) or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or
- (e) Interfering with or impairing any program for competitive bidding for power supply in a state in which such a program is established.

**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:	Indiana Michigan Power Company, dba American Electric Power, Rockport Plant
Source Location:	2791 N US Highway 231, Rockport, IN 47635
County:	Spencer
SIC Code:	4911
Operation Permit No.:	T147-16151-00020
Operation Permit Issuance Date:	August 17, 2006
Significant Permit Modification No.:	147-29169-00020
Permit Reviewer:	Jillian Bertram

**Existing Approvals**

The source was issued Part 70 Operating Permit No. 147-16151-00020 on August 17, 2006. The source has since received the following approvals:

Permit Type	Permit Number	Issuance Date
Significant Source Modification	147-25360-00020	September 3, 2008
Significant Permit Modification	147-25437-00020	September 23, 2008
Exemption	147-26309-00020	May 15, 2008

**County Attainment Status**

The source is located in Spencer County.

Pollutant	Designation
SO <sub>2</sub>	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O <sub>3</sub>	Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard. <sup>1</sup>
PM <sub>10</sub>	Unclassifiable effective November 15, 1990.
NO <sub>2</sub>	Cannot be classified or better than national standards.
Pb	Not designated.

<sup>1</sup>Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.

Basic nonattainment designation effective federally April 5, 2005, for the Ohio Twp for PM<sub>2.5</sub>. The remainder of Spencer County is unclassifiable or attainment effective April 5, 2005, for PM<sub>2.5</sub>.

- (a) Ozone Standards  
Volatile organic compounds (VOC) and Nitrogen Oxides (NO<sub>x</sub>) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO<sub>x</sub> emissions are

considered when evaluating the rule applicability relating to ozone. Spencer County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

- (b) **PM<sub>2.5</sub>**  
U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, has designated Spence County as nonattainment for PM<sub>2.5</sub>. On March 7, 2005, the Indiana Attorney General's Office, on behalf of IDEM, filed a lawsuit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's New Source Review Rule for PM<sub>2.5</sub> promulgated on May 8, 2008. These rules became effective on July 15, 2008. Therefore, direct PM<sub>2.5</sub> and SO<sub>2</sub> emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.
- (c) **Other Criteria Pollutants**  
Spence County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

#### Fugitive Emissions

Since this source is classified as one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7. Therefore, fugitive emissions are counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

#### Source Status

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

<b>Pollutant</b>	<b>Emissions (ton/yr)</b>
PM	>100
PM <sub>10</sub>	>100
PM <sub>2.5</sub>	>100
SO <sub>2</sub>	>100
VOC	>100
CO	>100
NO <sub>x</sub>	>100
Single HAPs	>10
Total HAPs	>25

- (a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because a regulated pollutant is emitted at a rate of 100 tons per year or more, and it is 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 nonattainment new source review rules (326 IAC 2-1.1-5) since direct PM<sub>2.5</sub> and/or SO<sub>2</sub> is emitted at a rate of 100 tons per year or more.
- (c) These emissions are based upon 147-25437-00020.

This existing source is a major source of HAPs, as defined in 40 CFR 63.2, because HAP emissions are greater than ten (10) tons per year for a single HAP and greater than twenty-five (25) tons per year for a combination of HAPs. Therefore, this source is a major source under Section 112 of the Clean Air Act (CAA).

### Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Indiana Michigan Power d.b.a. American Electric Power (AEP), Rockport Plant on April 15, 2010, relating to the modification of an activated carbon injection system to the utility boiler stack exhaust for control of mercury emissions, with associated storage and handling facilities for the activated carbon and the addition of a diesel-fueled space heater.

The following is a list of the emission units and pollution control devices addressed by this proposed modification:

#### Modified Emission Units

- (1) Two (2) pneumatic truck unloading stations and one (1) railcar unloading station for transferring activated carbon from transports to storage silos, permitted in 2008 and in 2010, with particulate emissions controlled by a bin vent filter.
- (2) Two (2) silos for storing activated carbon, permitted in 2008 and in 2010, each with a maximum storage capacity of 800 tons, with particulate emissions from each silo controlled by a bin vent filter.
- (3) Eight (8) capacity metering pressure tanks, permitted in 2008 and in 2010, each with a maximum capacity of injecting 500 pounds per hour of activated carbon into the exhaust ductwork, with particulate emissions controlled by a bin vent filter.

#### New Emission Unit

- (1) One (1) No. 2 fuel oil-fired space heater, approved for construction in 2010, with a maximum heat input capacity of 2.2 MMBtu/hr.

### Enforcement Issues

There are no pending enforcement actions related to this modification.

### Emission Calculations

See Appendix A of this Technical Support Document for detailed emission calculations.

### Permit Level Determination – Part 70

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

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

<b>PTE Before Controls of the Modification</b>	
<b>Pollutant</b>	<b>Potential To Emit (ton/yr)</b>
PM	9203.11
PM <sub>10</sub>	9200.68
PM <sub>2.5</sub>	9200.40
SO <sub>2</sub>	4.89
VOC	0.02
CO	0.34
NO <sub>x</sub>	1.38
Single HAPs	<10
Total HAPs	<25

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 the modification requires a case-by-case determination of an emission limitation or standard.

<b>Permit Level Determination – PSD and Nonattainment NSR</b>
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The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this Part 70 permit modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

<b>Past Actual to Future Projected Analysis for MB1 and MB2</b>			
	PM (tons)	PM10 (Tons)	PM2.5 (tons)
Past Act. emissions for MB1 and MB2	2615.65	2615.65	2615.65
Projected Act. MB1 and MB2	2118.7	2118.7	2118.7
Change in Emissions	-496.95	-496.95	-496.95
Actual To Projected Actual emission increase	0	0	0

The Permittee has provided information as part of the application for this approval that based on Actual to Projected Actual test in 326 IAC 2-2-2 and 2-1.1-5 this modification at a major stationary source will not be major for Prevention of Significant Deterioration under 326 IAC 2-2-1 or Nonattainment NSR 326 IAC 2-1.1.5. IDEM, OAQ has not reviewed this information and will not be making any determination in this regard as part of this approval. The applicant will be required to keep records and report in accordance with 326 IAC 2-2-8.

Process / Emission Unit	Potential to Emit of new emission units (ton/yr)						
	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>
PAC Material Handling	3.33	2.13	2.13	0.00	0.00	0.00	0.00
Unpaved Roads	0.19	0.05	0.01	0.00	0.00	0.00	0.00
Paved Roads	1.45	0.28	0.04	0.00	0.00	0.00	0.00
WHU-10 *	0.14	0.23	0.23	4.89	0.02	0.34	1.38
<b>Total for Modification</b>	<b>5.11</b>	<b>2.69</b>	<b>2.41</b>	<b>4.89</b>	<b>0.02</b>	<b>0.34</b>	<b>1.38</b>
PSD Significant Level	25	15	NA		40	100	40
Nonattainment NSR Significant Level	NA	NA	10	40	NA	NA	NA

This modification to an existing major stationary source is not major because the emissions increases are less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply to the 2010 modification.

This modification to an existing major stationary source is not major because the emissions increase is less than the Nonattainment NSR significant levels. Therefore, pursuant to 326 IAC 2-1.1-5, the Nonattainment NSR requirements do not apply to the 2010 modification.

The space heater,WHU-10 is a replacement for an existing space heater and will be included in the existing PSD minor limit.

The PM<sub>2.5</sub> emissions from this modification are from PAC silo, resulting only in filterable PM emissions. Since there are no condensable emissions associated with the PAC silo, loading additional material into trucks at the silo, hauling additional material into the source, increased hours of vehicle traffic on paved and unpaved roads, truck hauling paved roads, and unloading additional material into the source, the PM/PM10/PM2.5 emissions rate are based on emission factors from U.S. EPA's AP-42. It is reasonable to conclude that PM2.5 emissions will be less than PM10 emissions due to the fact that PM10 emissions include particulate emissions less than 10 microns and greater than 2.5 microns in addition to the emissions less than 2.5 microns. The PM2.5 emissions shall be controlled by bin filters which shall be in operation at all times and the source will demonstrate compliance with the PM2.5 emission limit by testing the emissions of PM2.5. The U.S. EPA's AP-42 emission factors were used to calculate the uncontrolled emissions. +

**Federal Rule Applicability Determination**

**NSPS:**

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this proposed modification.

**NESHAP:**

- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) applicable to this proposed modification.
- (c) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to new or modified emission units that involve a pollutant-specific emission unit and meet the following criteria:
  - (1) has a potential to emit before controls equal to or greater than the Part 70 major source threshold for the pollutant involved;
  - (2) is subject to an emission limitation or standard for that pollutant; and
  - (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

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

<b>CAM Applicability Analysis</b>							
<b>Emission Unit</b>	<b>Control Device Used</b>	<b>Emission Limitation (Y/N)</b>	<b>Uncontrolled PTE (ton/yr)</b>	<b>Controlled PTE (ton/yr)</b>	<b>Part 70 Major Source Threshold (ton/yr)</b>	<b>CAM Applicable (Y/N)</b>	<b>Large Unit (Y/N)</b>
PAC Injection - PM	ESP	Y	9198.00	<0	100	Y	N

Based on this evaluation, the requirements of 40 CFR Part 64, CAM are applicable to the PAC Injection system for PM upon issuance of the Title V Renewal. A CAM plan must be submitted as part of the Renewal application.

<b>State Rule Applicability Determination</b>
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The following state rules are applicable to the source due to the modification:

**326 IAC 2-1.1-5 (Nonattainment New Source Review)**

Nonattainment New Source Review applicability is discussed under the Permit Level Determination – PSD and Emission Offset section.

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

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

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

The operation of PAC Injection system and space heater will emit less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply to the PAC injection system..

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

Since this source is required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program, this source is subject to 326 IAC 2-6 (Emission Reporting). In accordance with the compliance schedule in 326 IAC 2-6-3, an emission statement must be submitted triennially. The first report is due no later than July 1, 2006, and subsequent reports are due every three (3) years thereafter. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

**326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)**

PAC material handling

Pursuant to 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the PAC handling and storage operations shall not exceed the emission limits specified in the table below:

Unit Description	Max. Process Weight Rate (tons/hr)	Allowable Particulate Emission Rate (lbs/hr)
PAC Handling and Storage	25	35.4

The allowable particulate emission rates were calculated using the equation below:

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

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

In order to comply with this limit, the bin vent filters for the PAC handling and storage operations shall be in operation and control emissions from the facilities at all times when the facilities are in operation.

### **326 IAC 2-7 (Sulfur Dioxide Emission Limitations)**

Although it is not necessary to limit the Space Heater, WHU-10, will be included in the existing sulfur dioxide limitation included in the permit at the source's request.

## **Compliance Determination and Monitoring Requirements**

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

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

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

The bin vent filters for the PAC Handling storage silos have applicable compliance monitoring conditions as specified below:

- (1) Visible emission readings shall be taken daily and recorded.

These monitoring conditions are necessary because the bin vent filters are necessary for compliance with 326 IAC 6-3-2.

## **Proposed Changes**

The changes listed below have been made to Part 70 Operating Permit No. T147-6786-00020 Deleted language appears as ~~strike throughs~~ and new language appears in **bold**:

### **Change No. 1**

Descriptions of the PAC injection system and PAC handling and storage operations have been updated to reflect that the units were approved for construction in 2008 and 2010. A change was made in the design of the injection equipment and there are 8 pressure tanks instead of 4. Throughput is restricted by the throughput rate of the carbon injection system, therefore, there are no changes in emissions because of this.

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) pulverized coal opposed wall fired dry bottom boiler, identified as MB1 (Main Boiler 1), with construction commenced in 1977 and completed in 1984, with a design heat input capacity of 12,374 million Btu per hour, with an electrostatic precipitator (ESP) system for control of particulate matter. Low NO<sub>x</sub> burners and an overfire air (OFA) system have been installed for NO<sub>x</sub> control. No. 2 fuel oil is fired during startup, shutdown, and load stabilization periods. No. 2 fuel oil may also be burned to maintain boiler temperature to ensure boiler availability on short notice, and to maintain boiler temperature required during chemical cleaning. One (1) powdered activated carbon (PAC) injection system, identified as ACI, ~~approved for construction~~ **permitted** in 2008 **and 2010**, with a combined maximum capacity of injecting 2,100 pounds of activated carbon per hour into the exhaust ductwork for Boilers 1 and 2 (MB1 and MB2). Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO<sub>x</sub>) and for sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitoring (COM) system are located on the common stack.
- (b) One (1) pulverized coal opposed wall fired dry bottom boiler, identified as MB2 (Main Boiler 2), with construction commenced in 1977 and completed in 1989, with a design heat input capacity of 12,374 million Btu per hour, with an electrostatic precipitator (ESP) system for control of particulate matter. Low NO<sub>x</sub> burners and an overfire air (OFA) system for NO<sub>x</sub> control are scheduled for installation in 2004. No. 2 fuel oil is fired during startup, shutdown, and load stabilization periods. No. 2 fuel oil may also be burned to maintain boiler temperature to ensure boiler availability on short notice, and to maintain boiler temperature required during chemical cleaning. One (1) powdered activated carbon (PAC) injection system, identified as ACI, ~~approved for construction~~ **permitted** in 2008 **and 2010**, with a combined maximum capacity of injecting 2,100 pounds of activated carbon per hour into the exhaust ductwork for Boilers 1 and 2 (MB1 and MB2).

\*\*\*

PAC Handling and Storage Operations

- (i) Two (2) pneumatic truck unloading stations and one (1) railcar unloading station for transferring activated carbon from transports to storage silos, ~~approved for construction~~ **permitted** in 2008 **and in 2010**, with particulate emissions controlled by a bin vent filter.
- (j) Two (2) silos for storing activated carbon, each with a maximum storage capacity of 800 tons, ~~approved for construction~~ **permitted** in 2008 **and in 2010**, with particulate emissions from each silo controlled by a bin vent filter.
- (k) **Eight (8)** ~~Four (4)~~ capacity metering pressure tanks, each with a maximum capacity of injecting 1,000 pounds per hour of activated carbon into the exhaust ductwork, ~~approved for construction~~ **permitted** in 2008 **and in 2010**, with particulate emissions controlled by a bin vent filter.

\*\*\*

**SECTION D.1 FACILITY OPERATION CONDITIONS**

Facility Description [326 IAC 2-7-5(15)]	
(a)	One (1) pulverized coal opposed wall fired dry bottom boiler, identified as MB1 (Main Boiler 1), with construction commenced in 1977 and completed in 1984, with a design heat input capacity of 12,374 million Btu per hour, with an electrostatic precipitator (ESP) system for control of particulate matter. Low NO <sub>x</sub> burners and an overfire air (OFA) system have been installed for NO <sub>x</sub> control. No. 2 fuel oil is fired during startup,

shutdown, and load stabilization periods. No. 2 fuel oil may also be burned to maintain boiler temperature to ensure boiler availability on short notice, and to maintain boiler temperature required during chemical cleaning. One (1) powdered activated carbon (PAC) injection system, identified as ACI, ~~approved for construction~~ **permitted** in 2008 **and 2010**, with a combined maximum capacity of injecting 2,100 pounds of activated carbon per hour into the exhaust ductwork for Boilers 1 and 2 (MB1 and MB2). Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO<sub>x</sub>) and for sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitoring (COM) system are located on the common stack.

- (b) One (1) pulverized coal opposed wall fired dry bottom boiler, identified as MB2 (Main Boiler 2), with construction commenced in 1977 and completed in 1989, with a design heat input capacity of 12,374 million Btu per hour, with an electrostatic precipitator (ESP) system for control of particulate matter. Low NO<sub>x</sub> burners and an overfire air (OFA) system for NO<sub>x</sub> control are scheduled for installation in 2004. No. 2 fuel oil is fired during startup, shutdown, and load stabilization periods. No. 2 fuel oil may also be burned to maintain boiler temperature to ensure boiler availability on short notice, and to maintain boiler temperature required during chemical cleaning. One (1) powdered activated carbon (PAC) injection system, identified as ACI, ~~approved for construction~~ **permitted** in 2008 **and 2010**, with a combined maximum capacity of injecting 2,100 pounds of activated carbon per hour into the exhaust ductwork for Boilers 1 and 2 (MB1 and MB2).

#### PAC Handling and Storage Operations

- (i) Two (2) pneumatic truck unloading stations and one (1) railcar unloading station for transferring activated carbon from transports to storage silos, ~~approved for construction~~ **permitted** in 2008 **and in 2010**, with particulate emissions controlled by a bin vent filter.
- (j) Two (2) silos for storing activated carbon, each with a maximum storage capacity of 800 tons, ~~approved for construction~~ **permitted** in 2008 **and in 2010**, with particulate emissions from each silo controlled by a bin vent filter.
- (k) **Eight (8)** ~~Four (4)~~ capacity metering pressure tanks, each with a maximum capacity of injecting 1,000 pounds per hour of activated carbon into the exhaust ductwork, ~~approved for construction~~ **permitted** in 2008 **and in 2010**, with particulate emissions controlled by a bin vent filter.

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

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**SECTION G Clean Air Interstate Rule (CAIR) Nitrogen Oxides Annual, Sulfur Dioxide, and Nitrogen Oxides Ozone Season Trading Programs – CAIR Permit for CAIR Units Under 326 IAC 24-1-1(a), 326 IAC 24-2-1(a), and 326 IAC 24-3-1(a)**

**ORIS Code:** {6166}

CAIR Permit for CAIR Units Under 326 IAC 24-1-1(a), 326 IAC 24-2-1(a), and 326 IAC 24-3-1(a)

- (a) One (1) pulverized coal opposed wall fired dry bottom boiler, identified as MB1 (Main Boiler 1), with construction commenced in 1977 and completed in 1984, with a design heat input capacity of 12,374 million Btu per hour, with an electrostatic precipitator (ESP) system for control of particulate matter. Low NO<sub>x</sub> burners and an overfire air (OFA) system have been installed for NO<sub>x</sub> control. No. 2 fuel oil is fired during startup, shutdown, and load stabilization periods. No. 2 fuel oil may also be burned to maintain boiler temperature to ensure boiler availability on short notice, and to maintain boiler temperature required during chemical cleaning. One (1) powdered activated carbon (PAC) injection system, identified as ACI, ~~approved for construction~~ **permitted** in 2008 **and 2010**, with a combined maximum capacity of injecting 2,100 pounds of activated carbon per hour into the exhaust ductwork for Boilers 1 and 2 (MB1 and MB2). Emissions from Units MB1 and MB2 are exhausted through the common stack, Stack CS012. Continuous emissions monitoring systems (CEMS) for nitrogen oxides (NO<sub>x</sub>) and for sulfur dioxide (SO<sub>2</sub>) and a continuous opacity monitoring (COM) system are located on the common stack.
- (b) One (1) pulverized coal opposed wall fired dry bottom boiler, identified as MB2 (Main Boiler 2), with construction commenced in 1977 and completed in 1989, with a design heat input capacity of 12,374 million Btu per hour, with an electrostatic precipitator (ESP) system for control of particulate matter. Low NO<sub>x</sub> burners and an overfire air (OFA) system for NO<sub>x</sub> control are scheduled for installation in 2004. No. 2 fuel oil is fired during startup, shutdown, and load stabilization periods. No. 2 fuel oil may also be burned to maintain boiler temperature to ensure boiler availability on short notice, and to maintain boiler temperature required during chemical cleaning. One (1) powdered activated carbon (PAC) injection system, identified as ACI, ~~approved for construction~~ **permitted** in 2008 **and 2010**, with a combined maximum capacity of injecting 2,100 pounds of activated carbon per hour into the exhaust ductwork for Boilers 1 and 2 (MB1 and MB2).

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

**Change No. 2**

The reporting form tracking the amount of PAC injected has been removed because the source is permitted to inject PAC at maximum injection capacity.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
Compliance and Enforcement Branch**

**Part 70 Quarterly Report**

Source Name: \_\_\_\_\_ Indiana Michigan Power Company (d.b.a. American Electric Power) Rockport Plant  
Source Address: \_\_\_\_\_ 2791 North US Highway 231, Rockport, Indiana 47635  
Mailing Address: \_\_\_\_\_ c/o Manager, Air Quality Services, American Electric Power  
4 Riverside Plaza, Columbus, OH 43215

Part 70 Permit No.: ~~T147-6786-00020~~

Facility: ~~Activated Carbon Injection System (ACI)~~

Parameter: ~~Throughput of activated carbon~~

Limit: ~~3,160 tons per twelve (12) consecutive month period with compliance determined at the end of each month.~~

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

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

~~No deviation occurred in this quarter.~~

~~Deviation/s occurred in this quarter.~~

~~— Deviation has been reported on:~~

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

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

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

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

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

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

**Change No. 3**

The new space heater WHU-1 has been added to the description of the space heating units. The new space heater has also been incorporated into the existing PSD limit. This space heater is replacing a currently insignificant space heater; references to this heater have been removed. There was also an error in the total heat input of the space heaters that has been corrected.

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:

\*\*\*

- (h) ~~Five (5)~~ **Six (6)** No. 2 fuel oil-fired space heaters designated as WHU-5, WHU-6, WHU-7, WHU-8, ~~and~~ WHU-9, **and WHU-10** with heat input capacities of 4.5 MMBtu/hr, 3.0 MMBtu/hr, 2.75 MMBtu/hr, 3.5 MMBtu/hr, ~~and~~ 4.5 MMBtu/hr, **and 2.2 MMBtu/hr** respectively.

\*\*\*

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) Space heaters using the following fuels: Fuel oil-fired combustion sources with heat input

equal to or less than two million (2,000,000) Btu per hour and firing fuel containing less than three-tenths (0.3) percent sulfur by weight, including space heaters WHU-1 and WHU-2, each with 1.1 MMBtu/hr heat input capacity, ~~and a 2 MMBtu/hr No. 2 fuel oil fired heater located in Station 10.~~ [326 IAC 7]

## SECTION D.6 FACILITY CONDITIONS

Facility Description [326 IAC 2-7-5(15)] (The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

- (g) Emergency generators as follows: Three (3) No. 2 fuel oil-fired emergency diesel generators designated as DG1, DG2, and DG3, each with 25.16 MMBtu/hr heat input capacity. [326 IAC 7][326 IAC 2]
- (h) ~~Five (5)~~ **Six (6)** No. 2 fuel oil-fired space heaters designated as WHU-5, WHU-6, WHU-7, WHU-8, ~~and~~ WHU-9, **and WHU-10** with heat input capacities of 4.5 MMBtu/hr, 3.0 MMBtu/hr, 2.75 MMBtu/hr, 3.5 MMBtu/hr, ~~and~~ 4.5 MMBtu/hr, **and 2.2 MMBtu/hr** respectively.

Insignificant Activities [326 IAC 2-7-1(21)]:

Space heaters using the following fuels: Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) Btu per hour and firing fuel containing less than three-tenths (0.3) percent sulfur by weight, including space heaters WHU-1 and WHU-2, each with 1.1 MMBtu/hr heat input capacity, ~~and a 2 MMBtu/hr No. 2 fuel oil fired heater located in Station 10.~~

Emergency generators as follows: Diesel generators not exceeding 1600 horsepower

\*\*\*

### D.6.3 PSD Minor Limit for SO<sub>2</sub> [326 IAC 2-2]

In order to make the requirements of 326 IAC 2-2-1(x) and 326 IAC 2-2-1(jj) (PSD Requirements) not applicable to the fuel oil-fired space heaters WHU-1, WHU-2, WHU-5, WHU-6, WHU-7, WHU-8, ~~and~~ WHU-9, **and WHU-10**, the emissions from the heaters shall be limited to less than forty (40) tons of sulfur dioxide (SO<sub>2</sub>) per twelve (12) consecutive month period with compliance determined at the end of each month. Compliance with this limit shall be determined at the end of each month, using the following equation:

$$\text{SO}_2 \text{ Emissions (per month)} = \frac{142 \times \text{S\%} \times \del{21.35} \mathbf{22.65} \text{ MMBtu/hr} \times \text{Hr (hrs/month)}}{\text{H (MMBtu/kgal)} \times 2000 \text{ (lb/ton)}}$$

Where: SO<sub>2</sub> Emission Limit (S) = (142 X S%) lbs per kilogallons  
Monthly Average Sulfur Content = S (%)  
Heat Input Capacity = ~~21.35~~ **22.65** MMBtu/hr  
Operating Hours = Hr (hrs/month)  
Monthly Average Fuel Heating Value = H (MMBtu/kgal)

\*\*\*

### D.6.5 Record Keeping Requirements

- (c) To document compliance with the requirements in Condition D.6.3, the Permittee shall maintain records of all periods of operation of space heaters WHU-1, WHU-2, WHU-5, WHU-6, WHU-7, WHU-8, ~~and~~ WHU-9, **and WHU-10**. These records shall include the times of the start and end of operation, the operating time for that period (in hours) and the total cumulative operating time (in hours) for that calendar month.

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**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
Compliance and Enforcement Branch**

**Part 70 Quarterly Report: Space Heaters Hours of Operation**

Source Name: Indiana Michigan Power Company (d.b.a. American Electric Power) Rockport Plant  
Source Address: 2791 North US Highway 231, Rockport, Indiana 47635  
Mailing Address: c/o Manager, Air Quality Services, American Electric Power  
1 Riverside Plaza, Columbus, OH 43215  
Part 70 Permit No.: T147-6786-00020  
Facility: Space Heaters WHU-1, WHU-2, WHU-5, WHU-6, WHU-7, WHU-8, WHU-9, and  
**WHU-10**

**Change No. 4**

Section F of the Permit (NOx Budget Program) has been removed because it is no longer applicable.

**Change No. 5**

Testing requirements in Condition D.1.9 have been updated to include more general testing language as the referenced test has already been completed.

**D.1.9 Testing Requirements [326 IAC 2-7-6(1), (6)][326 IAC 2-1.1-11]**

~~By December 31 of 2010, In order to determine compliance with the PM limitation in Conditions D.1.2 and D.1.3 shall be determined by a the Permittee shall perform PM performance stack testing of the emissions from the common stack conducted using methods as approved by the Commissioner. This testing shall be repeated by December 31 of every second calendar year following this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.~~ **Section C - Performance Testing contains the Permittee's obligations with regard to the performance testing required by this condition.** For the purpose of this permit, "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

**Conclusion and Recommendation**

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Permit Modification No. 147-29169-00020. The staff recommends to the Commissioner that this Part 70 Significant Permit Modification be approved.

**IDEM Contact**

- (a) Questions regarding this proposed permit can be directed to Jillian Bertram at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317)233-1782 or toll free at 1-800-451-6027 extension 3-1782.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: [www.idem.in.gov](http://www.idem.in.gov)

**Appendix A: Emission Calculations  
Uncontrolled Emissions from Modification**

**Company Name: Indiana Michigan Power d.b.a. American Electric Power (AEP) Rockport Plant  
Address: 2791 North US Highway 231, Rockport, Indiana 47635  
Permit No.: 147-29169-00020  
Reviewer: Jillian Bertram  
Date: April 16, 2010**

<b>Emission Source</b>	<b>PM (tons/yr)</b>	<b>PM10 (tons/yr)</b>	<b>PM2.5 (tons/yr)</b>	<b>SO2 (tons/yr)</b>	<b>VOC (tons/yr)</b>	<b>CO (tons/yr)</b>	<b>NOx (tons/yr)</b>	<b>Single HAP (tons/yr)</b>	<b>Total HAP (tons/yr)</b>
PAC Injection *	9198.00	9198.00	9198.00	0.00	0.00	0.00	0.00	0.00	0.00
PAC Material Handling	3.33	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00
Unpaved Roads	0.19	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paved Roads	1.45	0.28	0.04	0.00	0.00	0.00	0.00	0.00	0.00
WHU-10	0.14	0.23	0.23	4.89	0.02	0.34	1.38	negl.	negl.
<b>Total</b>	<b>9203.11</b>	<b>9200.68</b>	<b>9200.40</b>	<b>4.89</b>	<b>0.02</b>	<b>0.34</b>	<b>1.38</b>	<b>0.00</b>	<b>0.00</b>

\* It is assumed that all of the carbon injected is PM/PM10/PM2.5 emissions.

**Appendix A: Emission Calculations**  
**Powdered Activated Carbon Silo Loading and Transfer to Pressure Tank**

**Company Name: Indiana Michigan Power d.b.a. American Electric Power (AEP) Rockport Plant**  
**Address: 2791 North US Highway 231, Rockport, Indiana 47635**  
**Permit No.: 147-29169-00020**  
**Reviewer: Jillian Bertram**  
**Date: April 16, 2010**

**Particulate Emissions from Powered Activated Carbon (PAC) Handling and Storage**

Emissions are generated when: 1) the PAC is loaded into the storage silos from trucks or railcar, and 2) when it is transferred to the pressure tank from the storage silos.

Process Description	Maximum Throughput (tons/yr)	PM Emission Factor * (lbs/ton)	PM10/PM2.5 Emission Factor * (lbs/ton)	PTE of PM Before Controls (tons/yr)	PTE of PM10/PM2.5 Before Controls (tons/yr)	Control Efficiency (%)	PTE of PM After Controls (tons/yr)	PTE of PM10/PM2.5 After Controls (tons/yr)
Silo Loading and Storage	9,198	0.72	0.46	3.31	2.12	99.0%	3.3E-02	2.1E-02
Pressure Tank Loading	9,198	5.1E-03	2.4E-03	0.023	0.011	99.0%	2.3E-04	1.1E-04
			<b>Totals</b>	<b>3.33</b>	<b>2.13</b>		<b>0.033</b>	<b>0.021</b>

\* Emission factors are from AP-42, Chapter 11.12, Table 11.12.2-2 (6/06).

**Methodology**

PTE of PM/PM10/PM2.5 Before Controls (tons/yr) = Maximum Yearly Throughput (tons/yr) x PM/PM10 Emission Factor (lbs/ton) x 1 ton/2000 lbs

PTE of PM/PM10/PM2.5 After Controls (tons/yr) = PTE of PM/PM10 Before Controls (tons/yr) x ( 1 - Control Efficiency %)

**Appendix A: Emission Calculations  
Fugitive Emissions from Unpaved Roads**

**Company Name: Indiana Michigan Power d.b.a. American Electric Power (AEP) Rockport Plant**  
**Address: 2791 North US Highway 231, Rockport, Indiana 47635**  
**Permit No.: 147-29169-00020**  
**Reviewer: Jillian Bertram**  
**Date: April 16, 2010**

**Unpaved Roads  
Loaded Trucks**

According to AP-42, Chapter 13.2.2 - Unpaved Roads (11/06), the PM/PM10/PM2.5 emission factors for unpaved roads can be estimated from the following equation:

Method: 
$$E_f = k * [(s/12)^a] * [(W/3)^b] * [(365-p) / 365]$$

where:

k =	4.9	(Particle size multiplier) (k = 4.9 for PM, k = 1.5 for PM10, k = 0.15 for PM2.5)
s =	6.0	mean % silt content of unpaved roads
a =	0.7	Empirical constant (a = 0.7 for PM, a = 0.9 for PM10 and PM2.5)
b =	0.45	Empirical constant (b = 0.45 for PM and PM10)
W =	35	tons average vehicle weight
p =	120	no. of days with at least 0.254 mm of precipitation

PM Emission Factor (loaded trucks) =	$(4.9 \times (6.0/12)^{0.7} \times (35/3)^{0.45}) \times ((365 - 120)/365) =$	6.12 lbs/mile
PM10 Emission Factor (loaded trucks) =	$(1.5 \times (6.0/12)^{0.9} \times (35/3)^{0.45}) \times ((365 - 120)/365) =$	1.63 lbs/mile
PM2.5 Emission Factor (loaded trucks) =	$(0.15 \times (6.0/12)^{0.9} \times (35/3)^{0.45}) \times ((365 - 120)/365) =$	0.16 lbs/mile
	Length of Unpaved Roads in One Direction =	0.08 miles

**Potential to Emit (PTE) of PM/PM10 Before Control from Loaded Trucks on Unpaved Roads:**

PAC Delivery - Maximum Yearly Throughput: 9,200 tons/year

Vehicle Type	Maximum Trucks Per Year	Average Vehicle Weight	Total Trip Number	Traffic Component	Vehicle Mile Traveled (VMT)	PTE of PM	PTE of PM10	PTE of PM2.5
		(tons)	(trips/yr)	(%)	(miles/yr)	(tons/yr)	(tons/yr)	(tons/yr)
Truck (PAC Delivery) - loaded	460	35	460	100.0%	37	0.11	0.03	0.00

**Empty Trucks**

According to AP-42, Chapter 13.2.2 - Unpaved Roads (11/06), the PM/PM10/PM2.5 emission factors for unpaved roads can be estimated from the following equation:

Method: 
$$E_f = k * [(s/12)^a] * [(W/3)^b] * [(365-p) / 365]$$

where:

k =	4.9	(Particle size multiplier) (k = 4.9 for PM, k = 1.5 for PM10, k = 0.15 for PM2.5)
s =	6.0	mean % silt content of unpaved roads
a =	0.7	Empirical constant (a = 0.7 for PM a = 0.9 for PM10 and PM2.5)
b =	0.45	Empirical constant (b = 0.45 for PM and PM10)
W =	15	tons average vehicle weight
p =	120	no. of days with at least 0.254 mm of precipitation

PM Emission Factor (trucks) =	$(4.9 \times (6.0/12)^{0.7} \times (15/3)^{0.45}) \times ((365 - 120)/365) =$	4.18 lbs/mile
PM10 Emission Factor (trucks) =	$(1.5 \times (6.0/12)^{0.9} \times (15/3)^{0.45}) \times ((365 - 120)/365) =$	1.11 lbs/mile
PM2.5 Emission Factor (loaded trucks) =	$(0.15 \times (6.0/12)^{0.9} \times (15/3)^{0.45}) \times ((365 - 120)/365) =$	0.11 lbs/mile
	Length of Unpaved Roads in One Direction =	0.08 miles

**Potential to Emit (PTE) of PM/PM10 Before Control from Empty Trucks on Unpaved Roads:**

PAC Delivery - Maximum Yearly Throughput: 9,200 tons/year

Vehicle Type	Maximum Trucks Per Year	Average Vehicle Weight (tons)	Total Trip Number (trips/yr)	Traffic Component (%)	Vehicle Mile Traveled (VMT) (miles/yr)	PTE of PM (tons/yr)	PTE of PM10 (tons/yr)	PTE of PM2.5 (tons/yr)
Truck (PAC Delivery) - empty	460	15	460	100.0%	37	0.08	0.02	0.00

Vehicle Type	PM (tons/yr)	PM10 (tons/yr)	PM2.5 (tons/yr)
Loaded Trucks	0.11	0.03	0.00
Empty Trucks	0.08	0.02	0.00
Total for Trucks on Unpaved Roads	0.19	0.05	0.01

**Methodology**

PTE of PM/PM10/PM2.5 (tons/yr) = Vehicle Miles Traveled (mi/yr) x PM/PM10 Emission Factor (lbs/mi) x 1 ton/2,000 lbs

**Appendix A: Emission Calculations  
Fugitive Emissions from Paved Roads**

**Company Name: Indiana Michigan Power d.b.a. American Electric Power (AEP) Rockport Plant**  
**Address: 2791 North US Highway 231, Rockport, Indiana 47635**  
**Permit No.: 147-29169-00020**  
**Reviewer: Jillian Bertram**  
**Date: April 16, 2010**

**Paved Roads  
Loaded**

According to AP-42, Chapter 13.2.1 - Paved Roads (11/06), the PM/PM10/PM2.5 emission factors for paved roads can be estimated from the following equation:

$$E = (k \times (sL/2)^a \times (w/3)^b - C) \times (1 - p/(4 \times 365))$$

where:

E = emission factor (lb/vehicle mile traveled)  
sL = road surface silt loading (g/m<sup>2</sup>) = 12.0 (g/m<sup>2</sup>)  
w = mean vehicle weight (tons) = 35.0 tons  
k = empirical constant = 38 for PM, 7.3 PM10, and 1.1 for PM2.5  
a = empirical constant = 0.7 for PM and 0.9 for PM10 and PM2.5  
b = empirical constant = 0.45  
C = emission factor for exhaust, brake and tire wear 0.22 for PM and PM10 and 0.16 for PM2.5  
p = number of days per year with 0.01 inches precipitation 120

PM Emission Factor (trucks) =  $(38 \times (12/2)^{0.65} \times (35/3)^{1.5} - 0.11) \times (1 - 120/1460) = 4453.84$  g/mile  
PM10 Emission Factor (trucks) =  $(7.3 \times (12/2)^{0.65} \times (35/3)^{1.5} - 0.22) \times (1 - 120/1460) = 855.44$  g/mile  
PM2.5 Emission Factor (trucks) =  $(1.1 \times (12/2)^{0.65} \times (35/3)^{1.5} - 0.16) \times (1 - 120/1460) = 128.79$  g/mile  
Length of Paved Roads in One Direction = 0.50 miles

**Potential to Emit (PTE) of PM/PM10 Before Control from Paved Roads:**

PAC Delivery - Maximum Yearly Throughput: 9,200 tons/year

Vehicle Type	Maximum Trucks Per Year	Average Vehicle Weight	Total Trip Number	Traffic Component	Vehicle Mile Traveled (VMT)	PTE of PM	PTE of PM10	PTE PM2.5
		(tons)	(trips/yr)	(%)	(miles/yr)	(tons/yr)	(tons/yr)	(tons/yr)
Truck (PAC Delivery)	460	35	460	100.0%	230	1.13	0.22	0.03

**Empty**

According to AP-42, Chapter 13.2.1 - Paved Roads (11/06), the PM/PM10 emission factors for paved roads can be estimated from the following equation:

$$E = (k \times (sL/2)^a \times (w/3)^b - C) \times (1 - p/(4 \times 365))$$

where:

- E = emission factor (lb/vehicle mile traveled) 12.0 (g/m<sup>2</sup>)
- sL = road surface silt loading (g/m<sup>2</sup>) = 15.0 tons
- w = mean vehicle weight (tons) = 38 for PM, 7.3 PM10, and 1.1 for PM2.5
- k = empirical constant = 0.7 for PM and 0.9 for PM10 and PM2.5
- a = empirical constant = 0.45
- b = empirical constant = 0.22 for PM and PM10 and 0.16 for PM2.5
- C = emission factor for exhaust, brake and tire wear 120
- p = number of days per year with 0.01 inches precipitation

PM Emission Factor (trucks) =  $(38 \times (12/2)^{0.65} \times (15/3)^{1.5} - 0.11) \times (1 - 120/1460) = 1249.45 \text{ g/mile}$   
 PM10 Emission Factor (trucks) =  $(7.3 \times (12/2)^{0.65} \times (15/3)^{1.5} - 0.22) \times (1 - 120/1460) = 239.86 \text{ g/mile}$   
 PM2.5 Emission Factor (trucks) =  $(1.1 \times (12/2)^{0.65} \times (15/3)^{1.5} - 0.16) \times (1 - 120/1460) = 36.03 \text{ g/mile}$   
 Length of Paved Roads in One Direction = 0.50 miles

**Potential to Emit (PTE) of PM/PM10 Before Control from Paved Roads:**

PAC Delivery - Maximum Yearly Throughput: 9,200 tons/year

Vehicle Type	Maximum Trucks Per Year	Average Vehicle Weight (tons)	Total Trip Number (trips/yr)	Traffic Component (%)	Vehicle Mile Traveled (VMT) (miles/yr)	PTE of PM (tons/yr)	PTE of PM10 (tons/yr)	PTE PM2.5 (tons/yr)
Truck (PAC Delivery)	460	35	460	100.0%	230	0.32	0.06	0.01

NOTE: For the purpose of determining NSR applicability, the emissions increases associated with vehicular traffic on paved roads are equal to the potential to emit (PTE).

Vehicle Type	PM (tons/yr)	PM10 (tons/yr)	PM2.5 (tons/yr)
Loaded Trucks	1.13	0.22	0.03
Empty Trucks	0.32	0.06	0.01
<b>Total for Trucks on Paved Roads</b>	<b>1.45</b>	<b>0.28</b>	<b>0.04</b>

**Appendix A: Emission Calculations  
Space Heater WHU-10**

**Company Name:** Indiana Michigan Power d.b.a. American Electric Power (AEP) Rockport Plant  
**Address:** 2791 North US Highway 231, Rockport, Indiana 47635  
**Permit No.:** 147-29169-00020  
**Reviewer:** Jillian Bertram  
**Date:** April 16, 2010  
**WHU-10**

Heat Input Capacity MMBtu/hr 2.2      Potential Throughput kgals/year 137.6571      S = Weight % Sulfur 0.5

Emission Factor in lb/k	Pollutant					
	PM*	SO2	NOx	VOC	CO	PM10/PM2.5
	2.0	71 (142.0S)	20.0	0.34	5.0	3.30
Potential Emission in tons/yr	0.1	4.9	1.4	0.0	0.3	0.2

**Methodology**

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

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

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

\*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.

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

See nextpage for HAPs emission calculations.

**Appendix A: Emissions Calculations  
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)  
#1 and #2 Fuel Oil  
HAPs Emissions**

**Company Name: Indiana Michigan Power d.b.a. American Electric Power (AEP) Rockport Plant  
Address, City IN Zip: 2791 North US Highway 231, Rockport, Indiana 47635  
Permit No.: 147-29169-00020  
Reviewer: Jillian Bertram  
Date: April 16, 2010**

HAPs - Metals					
Emission Factor in lb/mmBtu	Arsenic 4.0E-06	Beryllium 3.0E-06	Cadmium 3.0E-06	Chromium 3.0E-06	Lead 9.0E-06
Potential Emission in tons/yr	negl.	negl.	negl.	negl.	negl.

HAPs - Metals (continued)				
Emission Factor in lb/mmBtu	Mercury 3.0E-06	Manganese 6.0E-06	Nickel 3.0E-06	Selenium 1.5E-05
Potential Emission in tons/yr	negl.	negl.	negl.	negl.

**Methodology**

No data was available in AP-42 for organic HAPs.  
 Potential Emissions (tons/year) = Throughput (mmBtu/hr)\*Emission Factor (lb/mmBtu)\*8,760 hrs/yr / 2,000



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
**Governor**

*Thomas W. Easterly*  
**Commissioner**

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
Toll Free (800) 451-6027  
[www.idem.IN.gov](http://www.idem.IN.gov)

## SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: John LaGrange  
Indiana Michigan Power  
2791 N US Hwy 231  
, Rockport, IN 47635

DATE: July 29, 2010

FROM: Matt Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

SUBJECT: Final Decision  
Indiana Michigan Power  
147-29169-00020

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:  
Patrick Hale, Responsible Official  
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at [jbrush@idem.IN.gov](mailto:jbrush@idem.IN.gov).

Final Applicant Cover letter.dot 11/30/07



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
**Governor**

*Thomas W. Easterly*  
**Commissioner**

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
Toll Free (800) 451-6027  
[www.idem.IN.gov](http://www.idem.IN.gov)

**July 29, 2010**

TO: Spencer County Public Library

From: Matthew Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

Subject: **Important Information for Display Regarding a Final Determination**

**Applicant Name: Indiana Michigan Power**  
**Permit Number: 147-29169-00020**

You previously received information to make available to the public during the public comment period of a draft permit. Enclosed is a copy of the final decision and supporting materials for the same project. Please place the enclosed information along with the information you previously received. To ensure that your patrons have ample opportunity to review the enclosed permit, **we ask that you retain this document for at least 60 days.**

The applicant is responsible for placing a copy of the application in your library. If the permit application is not on file, or if you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185.

Enclosures  
Final Library.dot 11/30/07

# Mail Code 61-53

IDEM Staff	DPABST 7/29/2010 Indiana Michigan Power (dba AEP) - Rockport 147-29169-00020 (Final)		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	 Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail:  <b>CERTIFICATE OF MAILING ONLY</b>	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		John LaGrange Indiana Michigan Power (dba AEP) - Rockport 2791 N US Hwy 231 Rockport IN 47635 (Source CAATS) (CONFIRM DELIVERY)										
2		Patrick Hale Plant Mgr Indiana Michigan Power (dba AEP) - Rockport 2791 N US Hwy 231 Rockport IN 47635 (RO CAATS)										
3		Mr. Randy Brown Plumbers & Steam Fitters Union, Local 136 2300 St. Joe Industrial Park Dr Evansville IN 47720 (Affected Party)										
4		Ms. Francis Lueken 223 W. 10th Street, P.O. Box 206 Ferdinand IN 47532 (Affected Party)										
5		Lester Purviance 2687 East CR 600 North Grandview IN 47615 (Affected Party)										
6		Richard & Betty Michel 2222 E. County Rd 700 N. Grandview IN 47615 (Affected Party)										
7		Mr. Tim Duncan 7499 N. CR 200 E. Grandview IN 47615 (Affected Party)										
8		Mr. Ferman Yearby III 313 Elm Rockport IN 47635 (Affected Party)										
9		Mr. Don Mottley Save Our Rivers 6222 Yankeetown Hwy Boonville IN 47601 (Affected Party)										
10		Ms. Kathy Tretter Dubois-Spencer Counties Publishing Co, Inc P.O. Box 38 Ferdinand IN 47532-0038 (Affected Party)										
11		Mr. Mike Robinson 1208 N Meadow Drive Rockport IN 47635 (Affected Party)										
12		Mr. Robert Grose 612 4th Street Grandview IN 47615 (Affected Party)										
13		Mr. Steve Sisley 4410 E State Road Grandview IN 47615 (Affected Party)										
14		Spencer County Commissioner/Health Dept. 200 Main Street, Courthouse Rockport IN 47635 (Affected Party)										
15		Spencer County Commissioners 200 Main St., Courthouse Rockport IN 47635 (Local Official)										

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See <b>Domestic Mail Manual R900, S913, and S921</b> for limitations of coverage on inured and COD mail. See <b>International Mail Manual</b> for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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# Mail Code 61-53

IDEM Staff	DPABST 7/29/2010 Indiana Michigan Power (dba AEP) - Rockport 147-29169-00020 (Final)		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	 Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail:  <b>CERTIFICATE OF MAILING ONLY</b>	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Spencer County Health Department Main Street Courthouse, 1st Floor, Room 1 Roackport IN 47635-1492 (Health Department)										
2		Mr. John Blair 800 Adams Ave Evansville IN 47713 (Affected Party)										
3		Spencer County Public Library 210 Walnut St. Rockport IN 47635 (Library)										
4												
5												
6												
7												
8												
9												
10												
11												
12												
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14												
15												

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See <b>Domestic Mail Manual R900, S913, and S921</b> for limitations of coverage on inured and COD mail. See <b>International Mail Manual</b> for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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